

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



**Skill Based Mini Project Report**

**on**

**Software Development on Currency conversion system**

**Submitted By:**

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**CSD 1<sup>st</sup> year, 2nd semester**

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Submitted to:

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
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## **CERTIFICATE**

This is certified that **SANDEEP KUMAR (0901CD211049)** has submitted the skill based project report titled **Software Development on Currency conversion** under the mentorship of **Mahesh Parmar** in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Design from Madhav Institute of Technology and Science, Gwalior.



**Mahesh Parmar**

Faculty Mentor

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Computer Science and Engineering

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

**DECLARATION**

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Design at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Mahesh Parmar , Assistant Professor , Computer Science and engineering.**

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



SANDEEP KUMAR  
0901CD211049  
1<sup>ST</sup> Year, 2nd Sem  
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## **MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

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### **ACKNOWLEDGEMENT**

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I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Mahesh Parmar, Assistant Professor, Computer Science and Engineering**, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



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# **ABSTRACT**

The intention behind the project was to build a responsive software for the conversion of currencies into our desired ones. In this program we uses currency name and value of money in the currency from which we wants to convert it.

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# Chapter 1: INTRODUCTION

## 1.1 INTRODUCTION

1.2 This program is based on the concept of currency conversion. In this program every user can convert currencies very easily and it also tackles so many problems that people face at times. Like what if a person who wants to convert currency don't know the values of currencies. At that time he needs a internet connection but sometimes there lacks signals so In this situation this program comes in handy.

## 1.3 MOTIVATION

The idea behind this program is to make conversion of currency easy for everyone. Generally people have to calculate their currency value using calculator and sometimes they also need internet for finding the value of currency they want to convert their money into. So what If they don't have internet network there So, Here comes this program by which they can convert any currency easily.

## Chapter 2: TOOLS

### 2.1 HARDWARE ESSENTIALS

- Processor: Minimum 1 GHz; Recommended 2GHz or more.
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
- Hard Drive: Minimum 32 GB; Recommended 64 GB or more.
- Memory (RAM): Minimum 1 GB; Recommended 4 GB or above

### 2.2 SOFTWARE ESSENTIALS

- Any Web Browser (eg: Chrome)
- Operating system: Windows or MacOs or Linux
- Language: C++

## Chapter 3: IMPLEMENTATION DETAILS

The project is completely implemented by the use of -

### 3.1 C++

1. C++ is a highly portable language and is often the language of choice for multi-device, multi-platform app development.
2. C++ is an object-oriented programming language and includes concepts like classes, inheritance, polymorphism, data abstraction, and encapsulation which allow code reusability and makes programs very maintainable.
3. C++ uses multi-paradigm programming. The Paradigm means the style of programming. paradigm concerned about logics, structure, and procedure of the program. C++ is multi-paradigm means it follows three paradigm Generic, Imperative, Object Oriented.
4. It is useful for the low-level programming language and very efficient for general purpose.
5. C++ gives the user complete control over memory management. This can be seen both as an advantage and a disadvantage as this increases the responsibility of the user to manage memory rather than it being managed by the Garbage collector.

## Chapter 4: SOFTWARE DEMONSTRATION

### 4.1 SOFTWARE DEMONSTRATION

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
EURO
Enter your amount you want to convert:
500
Which currency do you want to convert to:
INR
40615

...Program finished with exit code 0
Press ENTER to exit console.[]
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
INR
Enter your amount you want to convert:
4000
Which currency do you want to convert to:
USD
52

...Program finished with exit code 0
Press ENTER to exit console.

B
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
POUNDS
Enter your amount you want to convert:
7900
Which currency do you want to convert to:
INR
747103

...Program finished with exit code 0
Press ENTER to exit console.[]
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
USD
Enter your amount you want to convert:
6000
Which currency do you want to convert to:
YEN
801900

...Program finished with exit code 0
Press ENTER to exit console.■
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
INR
Enter your amount you want to convert:
680
Which currency do you want to convert to:
INR
680

...Program finished with exit code 0
Press ENTER to exit console.■
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
POUNDS
Enter your amount you want to convert:
650
Which currency do you want to convert to:
INR
61470.5

...Program finished with exit code 0
Press ENTER to exit console.■
```

```
input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
POUNDS
Enter your amount you want to convert:
580
Which currency do you want to convert to:
USD
701.8

...Program finished with exit code 0
Press ENTER to exit console.■
```

# Chapter 5: CONCLUSION

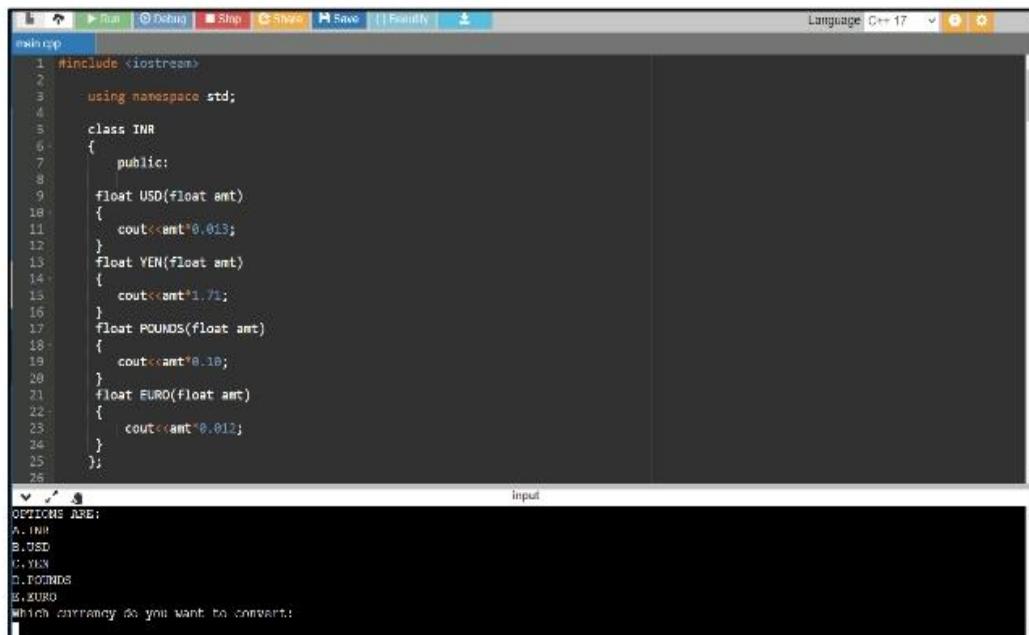
## 5.1 CONCLUSION

We can see that using this converter it is possible to convert any current into our desired currency values within seconds. This is a very useful program for anyone who wants to know the value of the currency they are having.

## APPENDICES

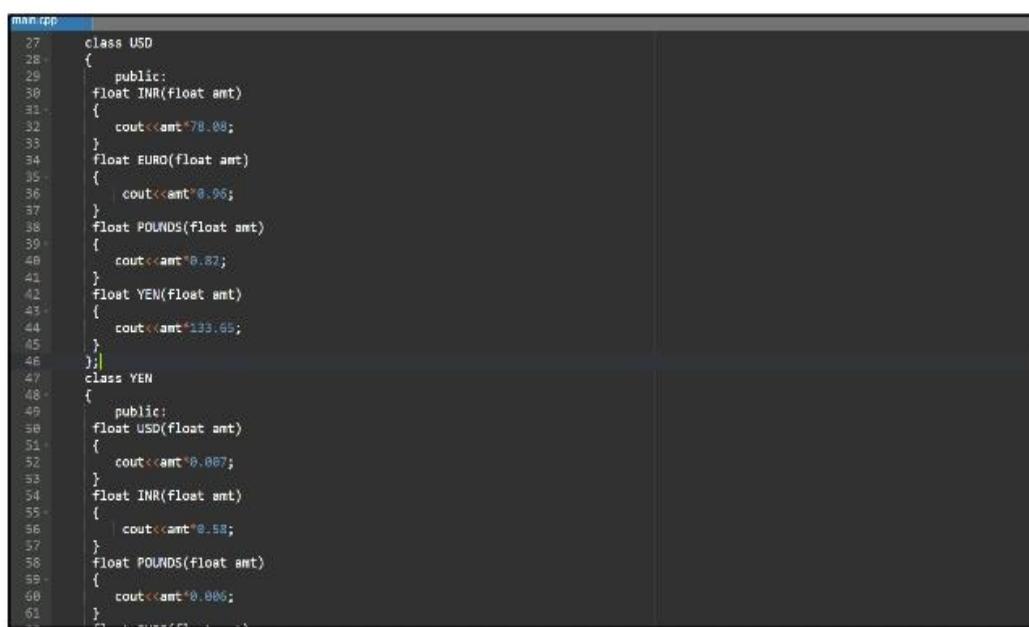
### # CODE USING C++ -

# PROGRAM SOURCE CODE-



```
main.cpp
1 #include <iostream>
2
3 using namespace std;
4
5 class INR
6 {
7     public:
8
9     float USD(float amt)
10    {
11        cout << amt * 0.013;
12    }
13    float YEN(float amt)
14    {
15        cout << amt * 11.71;
16    }
17    float POUNDS(float amt)
18    {
19        cout << amt * 0.18;
20    }
21    float EURO(float amt)
22    {
23        cout << amt * 0.012;
24    }
25 };
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
```

OPTIONS ARE:  
A. INR  
B. USD  
C. YEN  
D. POUNDS  
E. EURO  
Which currency do you want to convert?



```
main.cpp
27     class USD
28     {
29         public:
30         float INR(float amt)
31         {
32             cout << amt * 78.08;
33         }
34         float EURO(float amt)
35         {
36             cout << amt * 0.96;
37         }
38         float POUNDS(float amt)
39         {
40             cout << amt * 0.82;
41         }
42         float YEN(float amt)
43         {
44             cout << amt * 133.65;
45         }
46     };
47     class YEN
48     {
49         public:
50         float USD(float amt)
51         {
52             cout << amt * 0.007;
53         }
54         float INR(float amt)
55         {
56             cout << amt * 0.58;
57         }
58         float POUNDS(float amt)
59         {
60             cout << amt * 0.006;
61         }
62     };
63
```

```
main.cpp
47  class YEN
48  {
49      public:
50      float USD(float amt)
51      {
52          cout<<amt*0.007;
53      }
54      float INR(float amt)
55      {
56          cout<<amt*0.58;
57      }
58      float POUNDS(float amt)
59      {
60          cout<<amt*0.006;
61      }
62      float EURO(float amt)
63      {
64          cout<<amt*0.007;
65      }
66  };
67  class EURO
68  {
69      public:
70      float USD(float amt)
71      {
72          cout<<amt*1.04;
73      }
74      float YEN(float amt)
75      {
76          cout<<amt*138.97;
77      }
78      float POUNDS(float amt)
79      {
80          cout<<amt*0.85;
81      }
82      float INR(float amt)
83      {
84          cout<<amt*81.23;
85      }
86  };
87
88  class POUNDS
89  {
90      public:
91      float USD(float amt)
92      {
93          cout<<amt*1.21;
94      }
95      float YEN(float amt)
96      {
97          cout<<amt*161.81;
98      }
99      float INR(float amt)
100     {
101         cout<<amt*94.57;
102     }
103
104  class POUNDS
105  {
106      public:
107      float USD(float amt)
108      {
109          cout<<amt*1.21;
110      }
111      float YEN(float amt)
112      {
113          cout<<amt*161.81;
114      }
115      float INR(float amt)
116      {
117          cout<<amt*94.57;
118      }
119      float EURO(float amt)
120      {
121          cout<<amt*1.16;
122      }
123  };
124
125  int main()
126  {
127      float amount;
128      string cur1,cur2;
129      INR r;
130      USD u;
131      YEN y;
132      POUNDS p;
133      EURO e;
134
135      cout<<"OPTIONS ARE:"<<endl<<"A.INR"<<endl<<"B.USD"<<endl<<"C.YEN"<<endl<<"D.POUNDS"<<endl<<"E.EURO"<<endl;
136      cout<<"Which currency do you want to convert? "<<endl;
137      cin>>cur1;
138      cout<<"Enter your amount you want to convert: "<<endl;
139      cin>>amount;
140      cout<<"Which currency do you want to convert to? "<<endl;
141      cin>>cur2;
142
143      if(cur1=="A")
144      {
145          r=1;
146      }
147      else if(cur1=="B")
148      {
149          u=1;
150      }
151      else if(cur1=="C")
152      {
153          y=1;
154      }
155      else if(cur1=="D")
156      {
157          p=1;
158      }
159      else if(cur1=="E")
160      {
161          e=1;
162      }
163
164      if(cur2=="A")
165      {
166          r=1;
167      }
168      else if(cur2=="B")
169      {
170          u=1;
171      }
172      else if(cur2=="C")
173      {
174          y=1;
175      }
176      else if(cur2=="D")
177      {
178          p=1;
179      }
180      else if(cur2=="E")
181      {
182          e=1;
183      }
184
185      if(r==1)
186      {
187          cout<<amount*r;
188      }
189      else if(u==1)
190      {
191          cout<<amount*u;
192      }
193      else if(y==1)
194      {
195          cout<<amount*y;
196      }
197      else if(p==1)
198      {
199          cout<<amount*p;
200      }
201      else if(e==1)
202      {
203          cout<<amount*e;
204      }
205
206      cout<<endl;
207  }
```

```
main.cpp
68  class EURO
69  {
70      public:
71      float USD(float amt)
72      {
73          cout<<amt*1.04;
74      }
75      float YEN(float amt)
76      {
77          cout<<amt*138.97;
78      }
79      float POUNDS(float amt)
80      {
81          cout<<amt*0.85;
82      }
83      float INR(float amt)
84      {
85          cout<<amt*81.23;
86      }
87  };
88
89  class POUNDS
90  {
91      public:
92      float USD(float amt)
93      {
94          cout<<amt*1.21;
95      }
96      float YEN(float amt)
97      {
98          cout<<amt*161.81;
99      }
100     float INR(float amt)
101    {
102        cout<<amt*94.57;
103    }
104
105  class POUNDS
106  {
107      public:
108      float USD(float amt)
109      {
110          cout<<amt*1.21;
111      }
112      float YEN(float amt)
113      {
114          cout<<amt*161.81;
115      }
116      float INR(float amt)
117      {
118          cout<<amt*94.57;
119      }
120      float EURO(float amt)
121      {
122          cout<<amt*1.16;
123      }
124  };
125
126  int main()
127  {
128      float amount;
129      string cur1,cur2;
130      INR r;
131      USD u;
132      YEN y;
133      POUNDS p;
134      EURO e;
135
136      cout<<"OPTIONS ARE:"<<endl<<"A.INR"<<endl<<"B.USD"<<endl<<"C.YEN"<<endl<<"D.POUNDS"<<endl<<"E.EURO"<<endl;
137      cout<<"Which currency do you want to convert? "<<endl;
138      cin>>cur1;
139      cout<<"Enter your amount you want to convert: "<<endl;
140      cin>>amount;
141      cout<<"Which currency do you want to convert to? "<<endl;
142      cin>>cur2;
143
144      if(cur1=="A")
145      {
146          r=1;
147      }
148      else if(cur1=="B")
149      {
150          u=1;
151      }
152      else if(cur1=="C")
153      {
154          y=1;
155      }
156      else if(cur1=="D")
157      {
158          p=1;
159      }
160      else if(cur1=="E")
161      {
162          e=1;
163      }
164
165      if(cur2=="A")
166      {
167          r=1;
168      }
169      else if(cur2=="B")
170      {
171          u=1;
172      }
173      else if(cur2=="C")
174      {
175          y=1;
176      }
177      else if(cur2=="D")
178      {
179          p=1;
180      }
181      else if(cur2=="E")
182      {
183          e=1;
184      }
185
186      if(r==1)
187      {
188          cout<<amount*r;
189      }
190      else if(u==1)
191      {
192          cout<<amount*u;
193      }
194      else if(y==1)
195      {
196          cout<<amount*y;
197      }
198      else if(p==1)
199      {
200          cout<<amount*p;
201      }
202      else if(e==1)
203      {
204          cout<<amount*e;
205      }
206
207      cout<<endl;
208  }
```

## main.cpp

```
110  {
111      float amount;
112      string cur1,cur2;
113      INR r;
114      USD u;
115      YEN y;
116      POUNDS p;
117      EURO e;
118      cout<<"OPTIONS ARE:"<<endl<<"A.INR"<<endl<<"B.USD"<<endl<<"C.YEN"<<endl<<"D.POUNDS"<<endl<<"E.EURO"<<endl;
119      cout<<"Which currency do you want to convert:"<<endl;
120      cin>>cur1;
121      cout<<"Enter your amount you want to convert: "<<endl;
122      cin>>amount;
123      cout<<"Which currency do you want to convert to:"<<endl;
124      cin>>cur2;
125
126      if(cur1=="INR")
127      {
128          if(cur2=="INR")
129          {
130              cout<<amount;
131              r.USD(amount);
132          }
133          else if(cur2=="YEN")
134          {
135              r.YEN(amount);
136          }
137          else
138          {
139              r.EURO(amount);
140          }
141      }
142      if (cur1=="USD")
143      {
144          if(cur2=="USD")
145          {
146              cout<<amount;
147          }
148          else if(cur2=="INR")
149          {
150              u.INR(amount);
151          }
152          else if(cur2=="YEN")
153          {
154              u.YEN(amount);
155          }
156      }
157  }
```

```
main.cpp
138     }
139     if (cur1=="USD")
140     {
141         if(cur2=="USD")
142             cout<<amount;
143         else if(cur2=="INR")
144             u.INR(amount);
145         else if(cur2=="YEN")
146             u.YEN(amount);
147         else if(cur2=="POUNDS")
148             u.POUNDS(amount);
149         else if(cur2=="EURO")
150             u.EURO(amount);
151     }
152     if (cur1=="YEN")
153     {
154         if(cur2=="YEN")
155             cout<<amount;
156         else if(cur2=="INR")
157             y.INR(amount);
158         else if(cur2=="USD")
159             y.USD(amount);
160         else if(cur2=="POUNDS")
161             y.POUNDS(amount);
162         else if(cur2=="EURO")
163             y.EURO(amount);
164     }
165     if (cur1=="POUNDS")
166     {
167         if(cur2=="POUNDS")
168             cout<<amount;
169         else if(cur2=="USD")
170             p.USD(amount);
171         else if(cur2=="YEN")
172             p.YEN(amount);
173     }
174 }
```

```
main.cpp
155         y.USD(amount);
156     else if(cur2=="POUNDS")
157         y.POUNDS(amount);
158     else if(cur2=="EURO")
159         y.EURO(amount);
160 }
161 if (cur1=="POUNDS")
162 {
163     if(cur2=="POUNDS")
164         cout<<amount;
165     else if(cur2=="USD")
166         p.USD(amount);
167     else if(cur2=="YEN")
168         p.YEN(amount);
169     else if(cur2=="INR")
170         p.INR(amount);
171     else if(cur2=="EURO")
172         p.EURO(amount);
173 }
174 if (cur1=="EURO")
175 {
176     if(cur2=="EURO")
177         cout<<amount;
178     else if(cur2=="USD")
179         e.USD(amount);
180     else if(cur2=="YEN")
181         e.YEN(amount);
182     else if(cur2=="POUNDS")
183         e.POUNDS(amount);
184     else if(cur2=="INR")
185         e.INR(amount);
186 }
187
188
189
190 }
```