

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

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CSD 1st 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 **Tanisha Dhakad (0901CD211058)** 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.



Prof. Mahesh Parmar

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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 **Prof. Mahesh Parmar, 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.



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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 selection 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++ use 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.
```

```
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

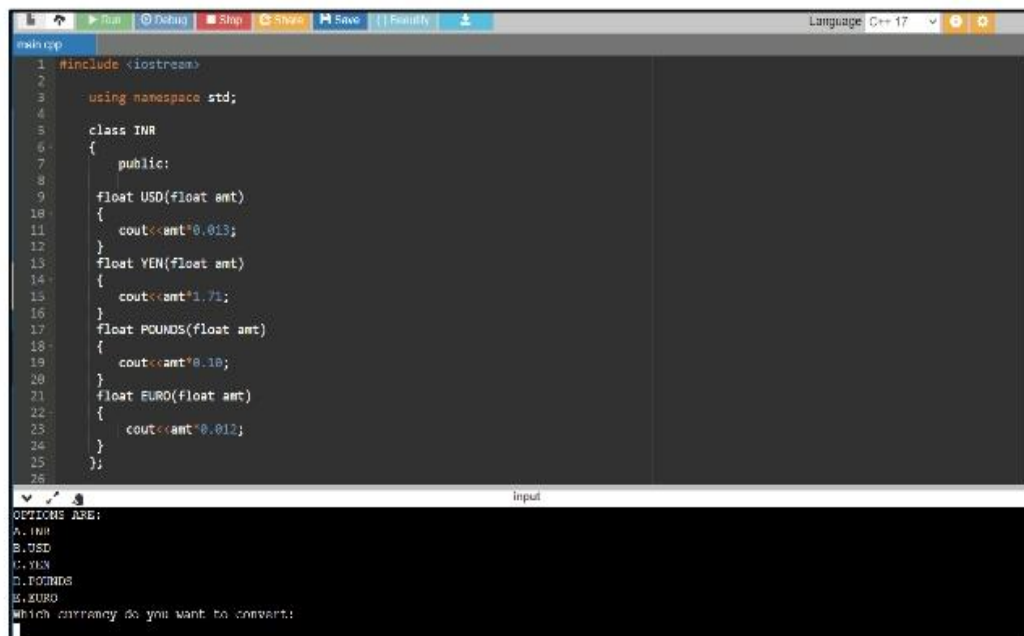
5.1 CONCLUSION

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-

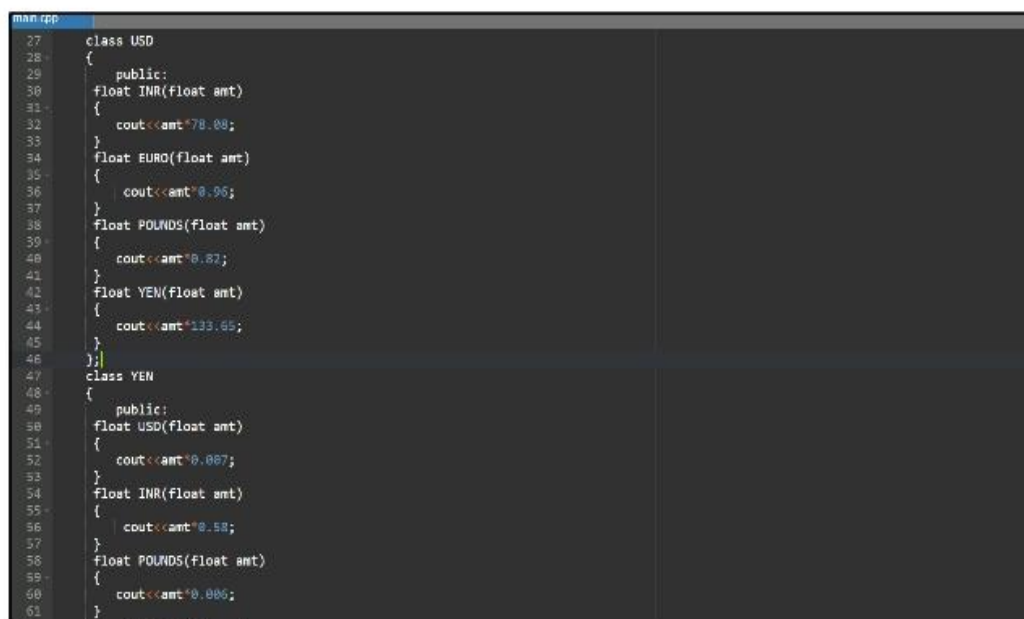


The screenshot shows a C++ IDE with a file named `main.cpp`. The code defines a class `INR` with methods for converting Indian Rupees to USD, YEN, POUNDS, and EURO. The output window shows the program's execution, listing the options and asking for the currency to convert.

```
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*1.71;
16     }
17     float POUNDS(float amt)
18     {
19         cout<<amt*0.10;
20     }
21     float EURO(float amt)
22     {
23         cout<<amt*0.012;
24     }
25 };
26
```

Input

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



The screenshot shows the continuation of the `main.cpp` file. It defines the `USD` and `YEN` classes with methods for converting US Dollars and Japanese Yen to INR, POUNDS, and EURO.

```
27 class USD
28 {
29     public:
30     float INR(float amt)
31     {
32         cout<<amt*78.00;
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
48 class YEN
49 {
50     public:
51     float USD(float amt)
52     {
53         cout<<amt*0.007;
54     }
55     float INR(float amt)
56     {
57         cout<<amt*0.58;
58     }
59     float POUNDS(float amt)
60     {
61         cout<<amt*0.006;
62     }
63 };
```

```

47 class VEN
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 };
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 }
84 };

```

```

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     float EURO(float amt)
105     {
106         cout<<amt*1.16;
107     }
108 };
109
110 int main()
111 {
112     float amount;
113     string cur1,cur2;
114     INR i;
115     USD u;
116     YEN y;
117     POUNDS p;
118     EURO e;
119     cout<<"OPTIONS ARE:"<<endl<<"A.INR"<<endl<<"B.USD"<<endl<<"C.YEN"<<endl<<"D.POUNDS"<<endl<<"E.EURO"<<endl;
120     cout<<"Which currency do you want to convert:"<<endl;
121     cin>>cur1;
122     cout<<"Enter your amount you want to convert: "<<endl;
123     cin>>amount;
124     cout<<"Which currency do you want to convert to:"<<endl;
125     cin>>cur2;

```

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             cout<<amount;
130         else if(cur2=="USD")
131             r.USD(amount);
132         else if(cur2=="YEN")
133             r.YEN(amount);
134         else if(cur2=="POUNDS")
135             r.POUNDS(amount);
136         else
137             r.EURO(amount);
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")
```

```

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);

```

```

main.cpp
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         else if(cur2=="INR")
174             p.INR(amount);
175         else if(cur2=="EURO")
176             p.EURO(amount);
177     }
178     if (cur1=="EURO")
179     {
180         if(cur2=="EURO")
181             cout<<amount;
182         else if(cur2=="USD")
183             e.USD(amount);
184         else if(cur2=="YEN")
185             e.YEN(amount);
186         else if(cur2=="POUNDS")
187             e.POUNDS(amount);
188         else if(cur2=="INR")
189             e.INR(amount);
190     }
191
192
193
194 }

```