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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0901cd211049

CSD 1st year, 2nd semester

Faculty Mentor:

Mahesh Parmar

Assistant Professor

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

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

Assistant Professor

Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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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 **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
1ST Year, 2nd Sem
Computer Science and Design

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering, for allowing** me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

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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0901CD211049
1ST Year, 2nd sem
Computer Science and Design

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.

TABLE OF CONTENTS

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.

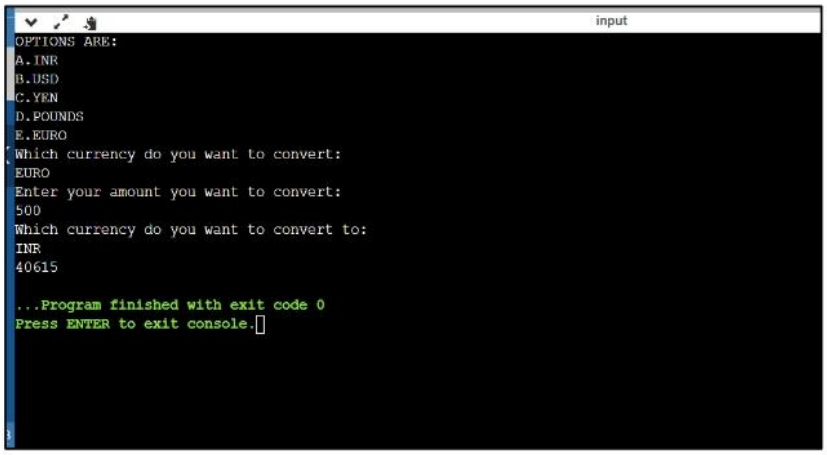
3. C++ use multi-paradigm programming. The Paradigm means the style of programming . paradigm concerned about logics, structure, and procedure of the program. C++ is multi-paradigm means it follows three paradigm Generic, Imperative, Object Oriented.

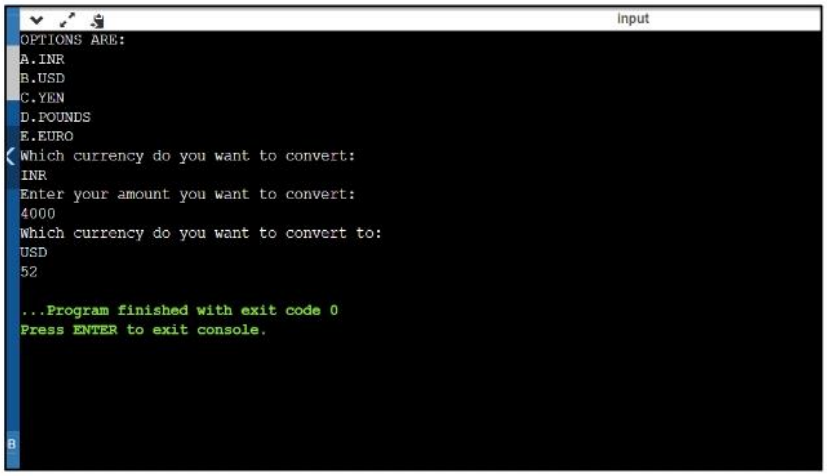
4. It is useful for the low-level programming language and very efficient for general purpose.

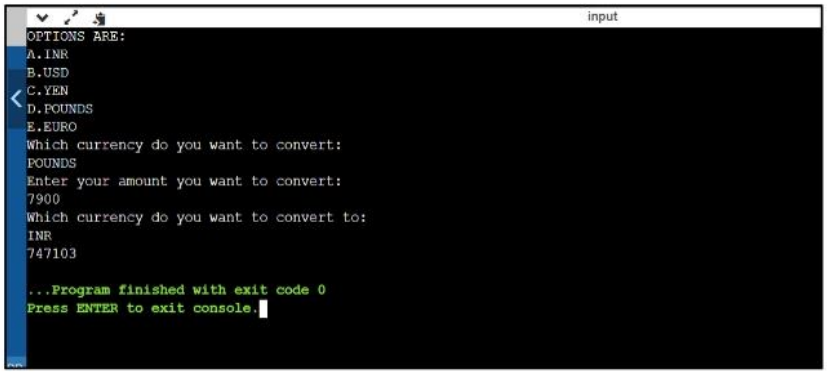
5. C++ gives the user complete control over memory management. This can be seen both as an advantage and a disadvantage as this increases the responsibility of the user to manage memory rather than it being managed by the Garbage collector.

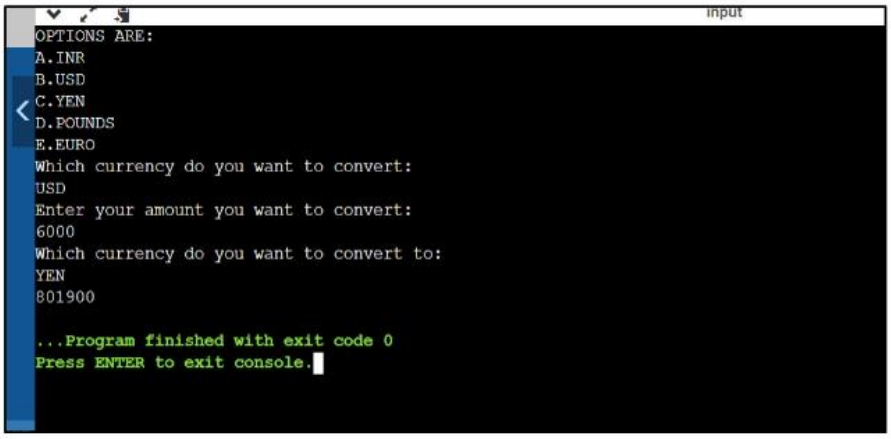
Chapter 4: SOFTWARE DEMONSTRATION

4.1 SOFTWARE DEMONSTRATION

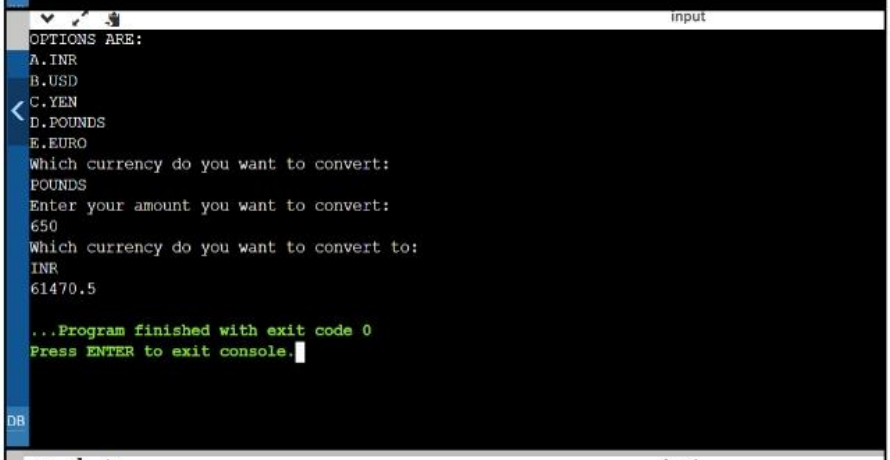

input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
EURO
Enter your amount you want to convert:
500
Which currency do you want to convert to:
INR
40615
...Program finished with exit code 0
Press ENTER to exit console.

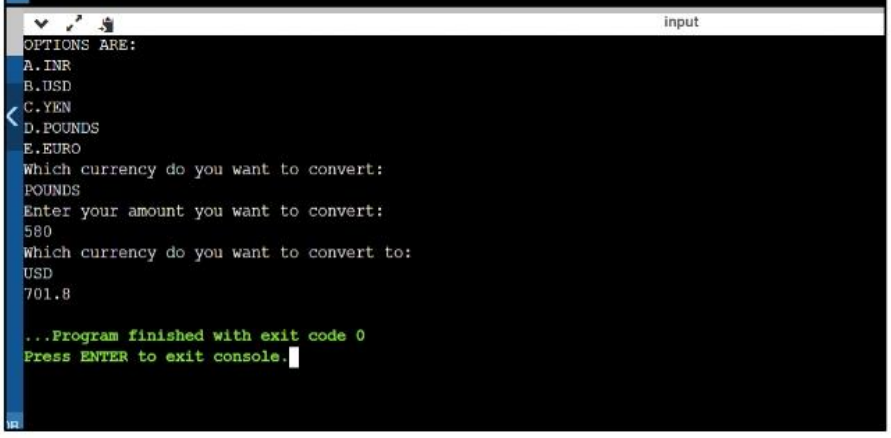

input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
INR
Enter your amount you want to convert:
4000
Which currency do you want to convert to:
USD
52
...Program finished with exit code 0
Press ENTER to exit console.


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

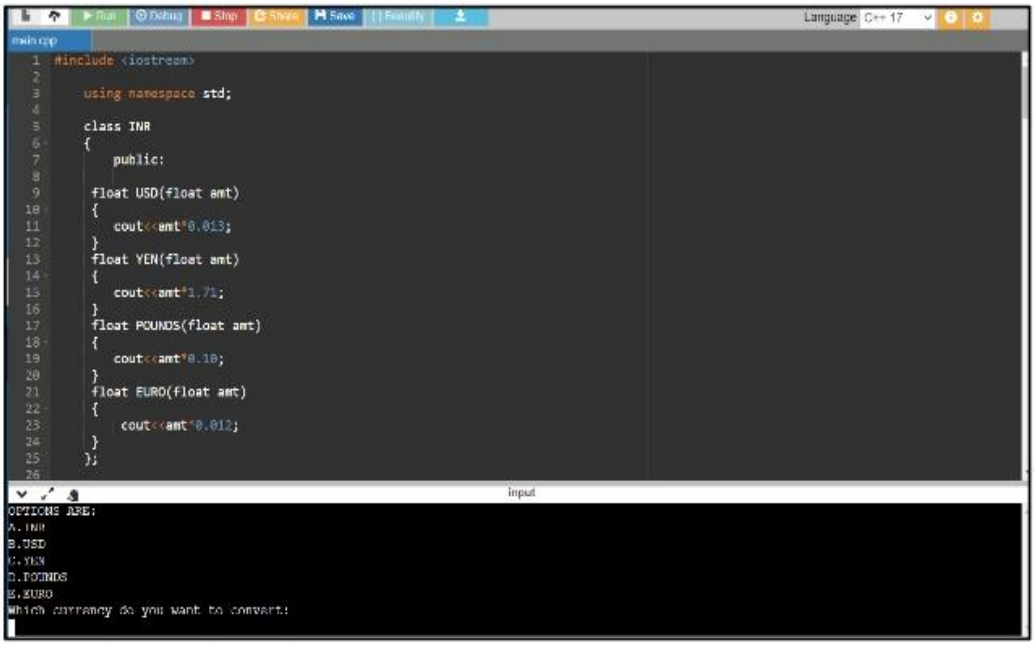
5.1 CONCLUSION

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

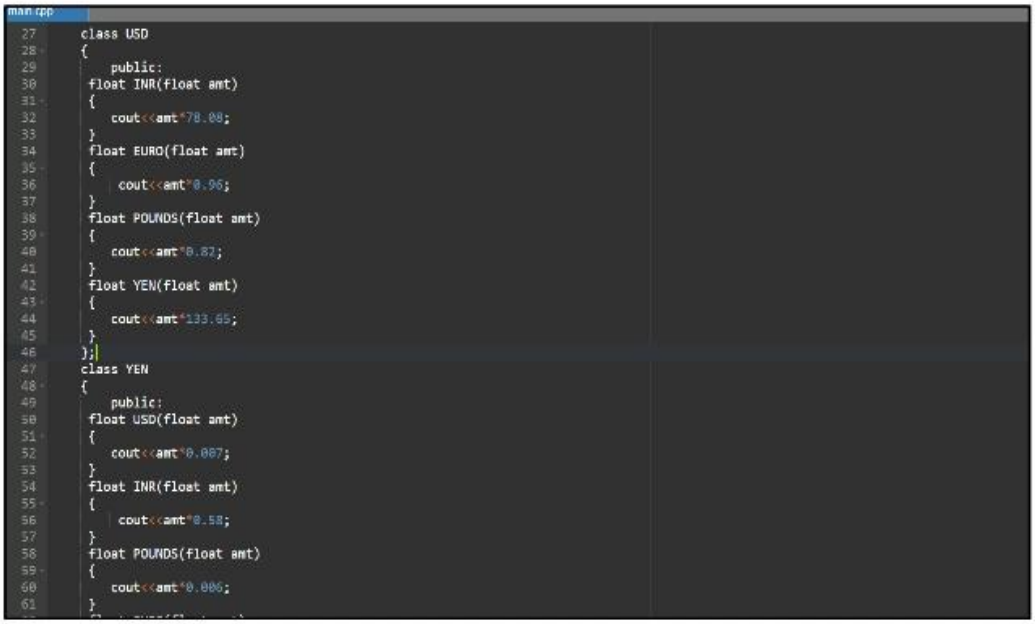
CODE USING C++ -

PROGRAM SOURCE CODE-

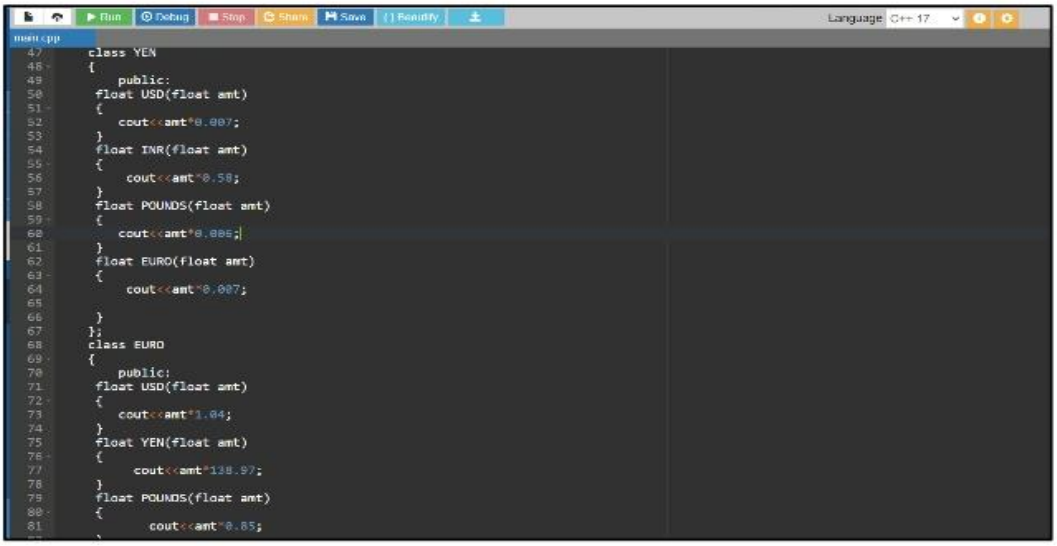


```
#include <iostream>

using namespace std;

class INR
{
    public:

 float USD(float amt)
 {
    cout<<amt*0.013;
 }
 float YEN(float amt)
 {
    cout<<amt*1.71;
 }
 float POUNDS(float amt)
 {
    cout<<amt*0.10;
 }
 float EURO(float amt)
 {
     cout<<amt*0.012;
 }
};
```

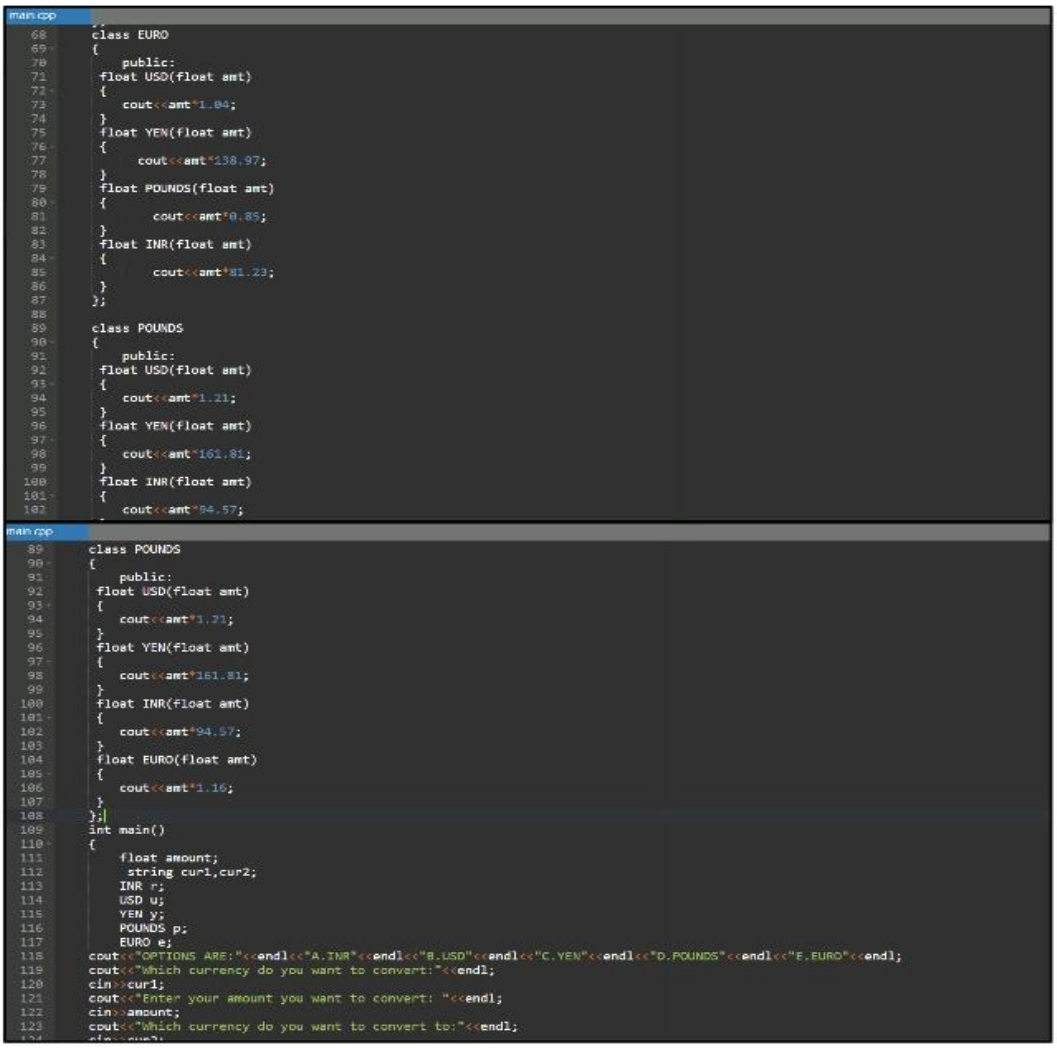
```
Input
OPTIONS ARE:
A.INR
B.USD
C.YEN
D.POUNDS
E.EURO
Which currency do you want to convert:
```



```
class USD
{
    public:
 float INR(float amt)
 {
    cout<<amt*78.08;
 }
 float EURO(float amt)
 {
     cout<<amt*0.96;
 }
 float POUNDS(float amt)
 {
    cout<<amt*0.82;
 }
 float YEN(float amt)
 {
    cout<<amt*133.65;
 }
};
class YEN
{
    public:
 float USD(float amt)
 {
    cout<<amt*0.007;
 }
 float INR(float amt)
 {
     cout<<amt*0.58;
 }
 float POUNDS(float amt)
 {
    cout<<amt*0.006;
 }
```



```
class YEN
{
    public:
 float USD(float amt)
 {
    cout<<amt*0.007;
 }
 float INR(float amt)
 {
     cout<<amt*0.58;
 }
 float POUNDS(float amt)
 {
    cout<<amt*0.005;
 }
 float EURO(float amt)
 {
     cout<<amt*0.007;

 }
};
class EURO
{
    public:
 float USD(float amt)
 {
    cout<<amt*1.04;
 }
 float YEN(float amt)
 {
     cout<<amt*138.97;
 }
 float POUNDS(float amt)
 {
      cout<<amt*0.85;
```



```
class EURO
{
    public:
 float USD(float amt)
 {
    cout<<amt*1.04;
 }
 float YEN(float amt)
 {
     cout<<amt*138.97;
 }
 float POUNDS(float amt)
 {
      cout<<amt*0.85;
 }
 float INR(float amt)
 {
      cout<<amt*81.23;
 }
};

class POUNDS
{
    public:
 float USD(float amt)
 {
    cout<<amt*1.21;
 }
 float YEN(float amt)
 {
    cout<<amt*161.81;
 }
 float INR(float amt)
 {
    cout<<amt*94.57;
```

```
class POUNDS
{
    public:
 float USD(float amt)
 {
    cout<<amt*1.21;
 }
 float YEN(float amt)
 {
    cout<<amt*161.81;
 }
 float INR(float amt)
 {
    cout<<amt*94.57;
 }
 float EURO(float amt)
 {
    cout<<amt*1.16;
 }
};
int main()
{
    float amount;
     string cur1,cur2;
    INR r;
    USD u;
    YEN y;
    POUNDS p;
    EURO e;
cout<<"OPTIONS ARE:"<<endl<<"A.INR"<<endl<<"B.USD"<<endl<<"C.YEN"<<endl<<"D.POUNDS"<<endl<<"E.EURO"<<endl;
cout<<"Which currency do you want to convert:"<<endl;
cin>>cur1;
cout<<"Enter your amount you want to convert: "<<endl;
cin>>amount;
cout<<"Which currency do you want to convert to:"<<endl;
```

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

```
 }
if (cur1=="USD")
{
     if(cur2=="USD")
     cout<<amount;
     else if(cur2=="INR")
     u.INR(amount);
     else if(cur2=="YEN")
     u.YEN(amount);
     else if(cur2=="POUNDS")
     u.POUNDS(amount);
     else if(cur2=="EURO")
     u.EURO(amount);
 }
if (cur1=="YEN")
{
     if(cur2=="YEN")
     cout<<amount;
     else if(cur2=="INR")
     y.INR(amount);
     else if(cur2=="USD")
     y.USD(amount);
     else if(cur2=="POUNDS")
     y.POUNDS(amount);
     else if(cur2=="EURO")
     y.EURO(amount);
 }
if (cur1=="POUNDS")
{
     if(cur2=="POUNDS")
     cout<<amount;
     else if(cur2=="USD")
     p.USD(amount);
     else if(cur2=="YEN")
     p.YEN(amount);
```

main.cpp

```
     y.USD(amount);
     else if(cur2=="POUNDS")
     y.POUNDS(amount);
     else if(cur2=="EURO")
     y.EURO(amount);
 }
if (cur1=="POUNDS")
{
     if(cur2=="POUNDS")
     cout<<amount;
     else if(cur2=="USD")
     p.USD(amount);
     else if(cur2=="YEN")
     p.YEN(amount);
     else if(cur2=="INR")
     p.INR(amount);
     else if(cur2=="EURO")
     p.EURO(amount);
 }
if (cur1=="EURO")
{
     if(cur2=="EURO")
     cout<<amount;
     else if(cur2=="USD")
     e.USD(amount);
     else if(cur2=="YEN")
     e.YEN(amount);
     else if(cur2=="POUNDS")
     e.POUNDS(amount);
     else if(cur2=="INR")
     e.INR(amount);
 }


}
```