

**B.M.S COLLEGE OF ENGINEERING BENGALURU**

Autonomous Institute, Affiliated to VTU



**SPC AAT Report on**

**CURRENCY CONVERTER**

*Submitted in partial fulfillment of the requirements for AAT*

Bachelor of Engineering

in

Computer Science and Engineering

*Submitted by:*

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**2025-2026**

**B.M.S COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



***DECLARATION***

We, PREETH JAIN AND PRANSHUL THAKUR students of 1<sup>st</sup> Semester, B.E, Department of Computer Science and Engineering, B.M.S College of Engineering, Bangalore, hereby declare that, this AAT Project entitled “**Currency Converter**” has been carried out in Department of CSE, BMS College of Engineering, Bangalore during the academic semester Sep 2025 - Jan 2026. We also declare that to the best of our knowledge and belief, the AAT Project report is not from part of any other report by any other students.

Student Name

1. PREETH JAIN
2. PRANSHUL THAKUR

Student Signature

**BMS COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND**  
**ENGINEERING**



***CERTIFICATE***

This is to certify that the AAT Project titled **“Currency Convertor”** has been carried out by **PREETH JAIN (1WM25CS211-T) and PRANSHUL THAKUR (1WM25CS885-T)** during the academic year 2025-2026.

Signature of the Faculty in Charge

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## **1. INTRODUCTION**

Currency conversion is an important requirement in today's globalized world where people frequently deal with different currencies for travel, trade, education, and business purposes. A currency converter helps in converting the value of one currency into another using a predefined exchange rate.

This project titled "Currency Converter" is a console-based application developed using the C programming language. The main objective of this project is to perform currency conversion between commonly used currencies such as INR, USD, and EUR. The program takes user input for the type of conversion and the amount, applies fixed exchange rates, and displays the converted value.

The application uses basic concepts of C programming such as input/output functions (scanf, printf), conditional statements (switch-case), and arithmetic operations. Since the exchange rates are fixed, the program does not require internet connectivity and is simple to understand and execute.

This project helps beginners understand how real-life problems can be solved using basic programming logic and serves as a good introduction to developing console-based applications in C.

## 2. ALGORITHM

**Step 1:** Start

**Step 2:** Declare variables c and c2 as integer, r1 as float

**Step 3:** Display title “Currency Converter”

**Step 4:** Display conversion menu:

INR to USD

INR to EUR

USD to INR

USD to EUR

EUR to INR

EUR to USD

**Step 5:** Ask user to enter choice c

**Step 6:** Switch (c):

Case 1:

Input INR

Convert INR to USD

Display result

Case 2:

Input INR

Convert INR to EUR

Display result

Case 3:

Input USD

Convert USD to INR

Display result

Case 4:

Input USD

Convert USD to EUR

Display result

Case 5:

Input EUR

Convert EUR to INR

Display result

Case 6:

Input EUR

Convert EUR to USD

Display result

Default:

Display “Invalid Choice”

Go to choice step

**Step 7:** Ask user whether to continue:

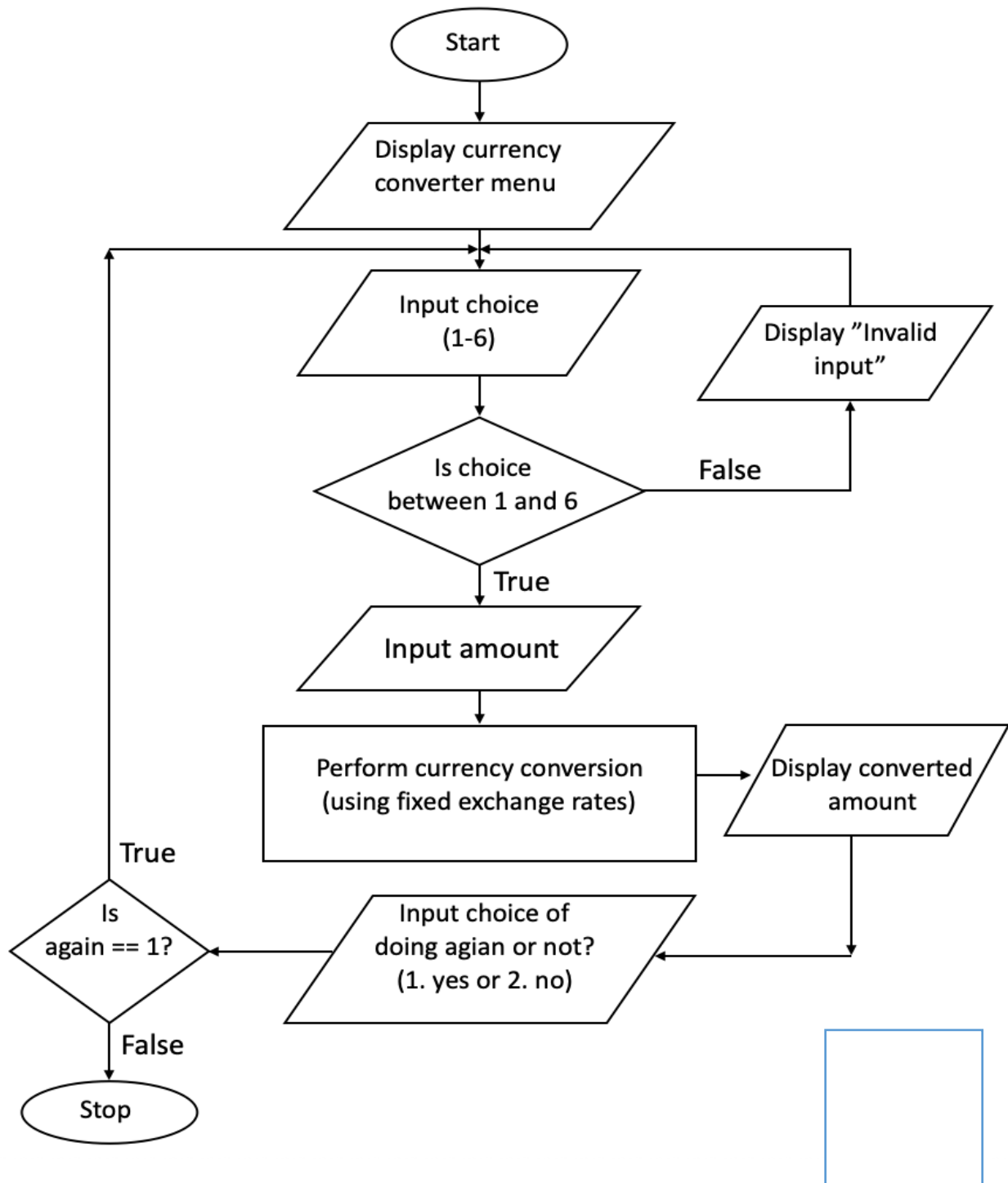
If 1, go to choice

If 2, display “Ending Program, Thank You” and stop

Else, display “Invalid Choice” and ask again

**Step 8:** Stop

### 3. FLOWCHART





## 4. SOURCE CODE

```
#include<stdio.h>

int main()
{
    int c;

    float r1;

    printf("\n=====\\n");

    printf("\n    Currency convertor    \\n");

    printf("\n=====\\n");

    printf("1. INR to USD\\n");

    printf("2. INR to EUR\\n");

    printf("3. USD to INR\\n");

    printf("4. USD to EUR\\n");

    printf("5. EUR to INR\\n");

    printf("6. EUR to USD\\n");

    printf("\n-----\\n");

    choice:

    printf("\nEnter your choice (1-6): ");

    scanf("%d", &c);
```

```
switch(c)
{
    case 1:
        printf("\nEnter INR: ");
        scanf("%f", &r1);
        printf("\n-----\n");
        printf("\n%.2f INR = %.2f USD\n", r1, r1 / 89.58);
        break;

    case 2:
        printf("\nEnter INR: ");
        scanf("%f", &r1);
        printf("\n-----\n");
        printf("\n%.2f INR = %.2f EUR\n", r1, r1 / 104.89);
        break;

    case 3:
        printf("\nEnter USD: ");
        scanf("%f", &r1);
        printf("\n-----\n");
        printf("\n%.2f USD = %.2f INR\n", r1, r1 * 89.58);
        break;
```

---

case 4:

```
printf("\nEnter USD: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f USD = %.2f EUR\n", r1, r1 * 0.58);  
  
break;
```

case 5:

```
printf("\nEnter EUR: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f EUR = %.2f INR\n", r1, r1 * 104.89);  
  
break;
```

case 6:

```
printf("\nEnter EUR: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f EUR = %.2f USD\n", r1, r1 / 0.58);  
  
break;
```

default:

```
    printf("Invalid Choice\n");  
    goto choice;  
}  
  
int c2;  
  
printf("\n-----\n");
```

again:

```
    printf("\nWant to do it again ?\n1. Yes\n2. No\n");  
    scanf("%d", &c2);  
  
    if(c2 == 1) goto choice;  
    else if(c2 == 2){  
        printf("Ending program\nThank you\n");  
        return 0;  
    }  
  
    else{  
        printf("\nInvalid Choice\nChoose again\n");  
        goto again;  
    }  
}
```

## 5. RESULTS

OUTPUT :

```
=====
          Currency convertor
=====
1. INR to USD
2. INR to EUR
3. USD to INR
4. USD to EUR
5. EUR to INR
6. EUR to USD

-----

Enter your choice(1-6): 1
Enter  INR: 100

-----

100.00  INR = 1.12  USD

-----

Want to do it again ?
1. Yes
2. No
1

Enter your choice(1-6): 2
Enter  INR: 99

-----

99.00  INR = 0.94  EUR

-----

Want to do it again ?
```

```
1. Yes
2. No
3

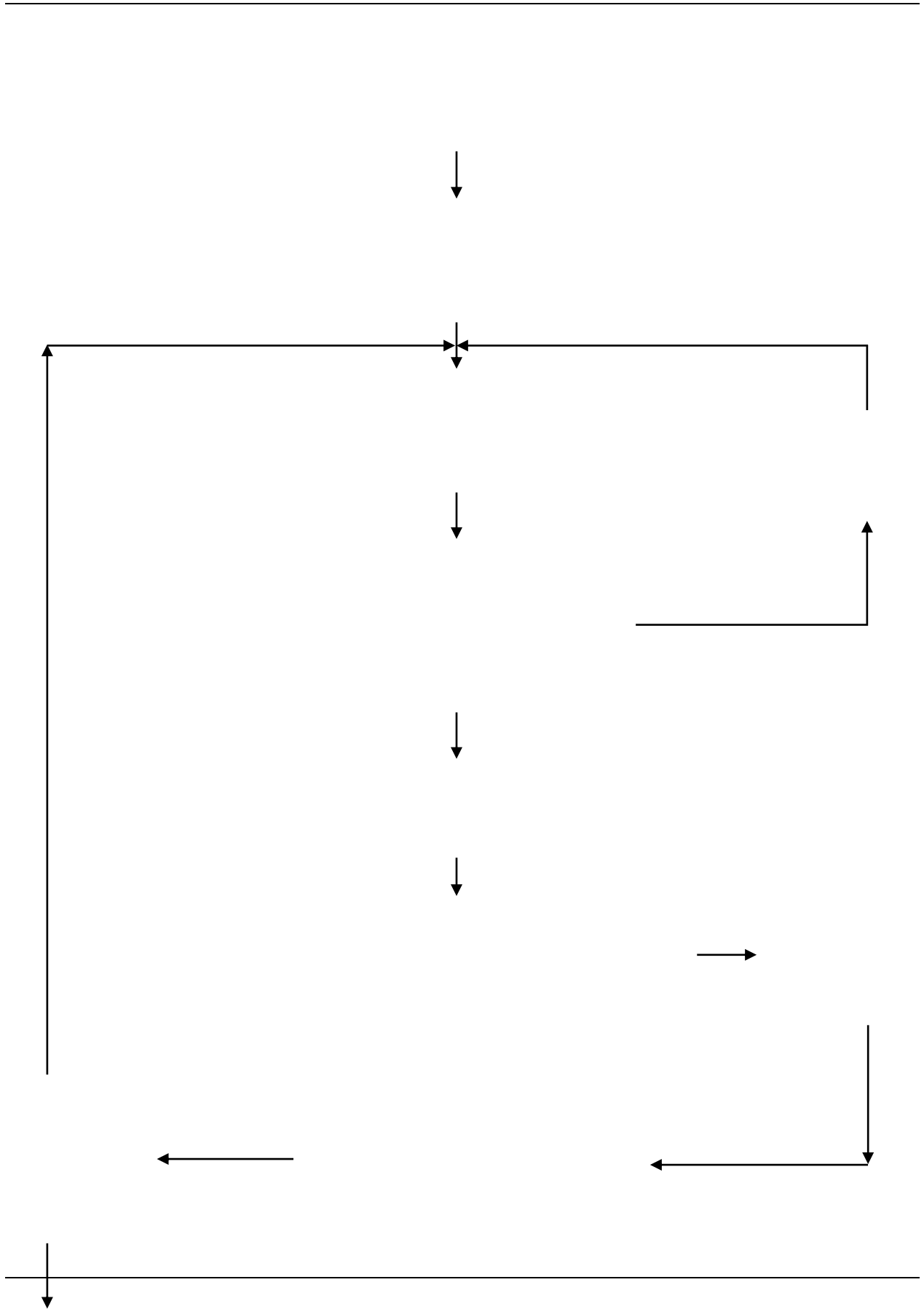
Invalid Choice
Choose again

Want to do it again ?
1. Yes
2. No
2
Ending program
Thank you

Process returned 0 (0x0)   execution time : 20.367 s
Press any key to continue.
```

## **6. REFERENCES**

1. Class notes and lecture materials provided by the course instructor.
2. Google Finance (for approximate exchange rates)





## 4. SOURCE CODE

```
#include<stdio.h>

int main()
{
    int c;

    float r1;

    printf("\n=====\\n");

    printf("\n    Currency convertor    \\n");

    printf("\n=====\\n");

    printf("1. INR to USD\\n");

    printf("2. INR to EUR\\n");

    printf("3. USD to INR\\n");

    printf("4. USD to EUR\\n");

    printf("5. EUR to INR\\n");

    printf("6. EUR to USD\\n");

    printf("\n-----\\n");
```

choice:

```
printf("\nEnter your choice (1-6): ");
```

```
scanf("%d", &c);
```

```
switch(c)
```

```
{
```

```
case 1:
```

```
    printf("\nEnter INR: ");
```

```
    scanf("%f", &r1);
```

```
    printf("\n-----\n");
```

```
    printf("\n%.2f INR = %.2f USD\n", r1, r1 / 89.58);
```

```
    break;
```

```
case 2:
```

```
    printf("\nEnter INR: ");
```

```
    scanf("%f", &r1);
```

```
    printf("\n-----\n");
```

```
    printf("\n%.2f INR = %.2f EUR\n", r1, r1 / 104.89);
```

```
    break;
```

```
case 3:
```

---

```
printf("\nEnter USD: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f USD = %.2f INR\n", r1, r1 * 89.58);  
  
break;
```

case 4:

```
printf("\nEnter USD: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f USD = %.2f EUR\n", r1, r1 * 0.58);  
  
break;
```

case 5:

```
printf("\nEnter EUR: ");  
  
scanf("%f", &r1);  
  
printf("\n-----\n");  
  
printf("\n%.2f EUR = %.2f INR\n", r1, r1 * 104.89);  
  
break;
```

case 6:

```
printf("\nEnter EUR: ");  
  
scanf("%f", &r1);
```

---

```
printf("\n-----\n");

printf("\n%.2f EUR = %.2f USD\n", r1, r1 / 0.58);

break;

default:

    printf("Invalid Choice\n");

    goto choice;

}

int c2;

printf("\n-----\n");
```

again:

```
printf("\nWant to do it again ?\n1. Yes\n2. No\n");

scanf("%d", &c2);

if(c2 == 1) goto choice;

else if(c2 == 2){

    printf("Ending program\nThank you\n");

    return 0;

}

else{
```

---

```
    printf("\nInvalid Choice\nChoose again\n");  
  
    goto again;  
  
}  
  
}
```

## **5. RESULTS**

OUTPUT :

```

=====
          Currency convertor
=====
1. INR to USD
2. INR to EUR
3. USD to INR
4. USD to EUR
5. EUR to INR
6. EUR to USD

-----

Enter your choice(1-6): 1
Enter  INR: 100

-----

100.00  INR = 1.12  USD

-----

Want to do it again ?
1. Yes
2. No
1

Enter your choice(1-6): 2
Enter  INR: 99

-----

99.00  INR = 0.94  EUR

-----

Want to do it again ?

```

```
1. Yes
2. No
3

Invalid Choice
Choose again

Want to do it again ?
1. Yes
2. No
2
Ending program
Thank you

Process returned 0 (0x0)   execution time : 20.367 s
Press any key to continue.
```

## **6. REFERENCES**

3. Class notes and lecture materials provided by the course instructor.
4. Google Finance (for approximate exchange rates)