SUNIL MEENA (IOT620)

PROJECT 35@IOT

TASK ID = 150

C Program for convert Temperature Celsius to Fahrenheit →

```
#include <stdio.h>
float convertCtoF(float c)
{
    return ((c * 9.0 / 5.0) + 32.0);
}
int main()
{
    float c, f;
    printf("Enter temperature in Celsius: ");
    scanf("%f", &c);

    f = convertCtoF(c);
    printf("%.2f Celsius = %.2f Fahrenheit", c, f);
    return 0;
}
```

C Program for convert Temperature Fahrenheit to Celsius \rightarrow

```
#include <stdio.h>
float convertFtoC(float f)
{
    return ((f - 32) / 1.8);
}
```

```
int main ()
{
    float c, f;
    printf ("\n\nEnter temperature in Fahrenheit: ");
    scanf ("%f", &f);
    c = convertFtoC(f);
    printf ("%.2f Fahrenheit = %.2f Celsius", f, c);
    return 0;
}
Currency Conversion →
```

```
#include <stdio.h>
int main()
{
 float amount;
 float INR, USD, AED;
 int choice;
 printf ("Following are the Choices:");
 printf ("\nEnter 1 to convert INR to USD and AED: INR");
 printf ("\nEnter 2 to convert USD to INR and AED: USD");
 printf ("\nEnter 3 to convert AED to INR and USD: AED");
 printf ("\nEnter your choice: ");
 scanf ("%d", &choice);
 printf ("Enter the amount you want to convert?\n");
 scanf("%f", &amount);
 switch (choice)
 {
```

```
case 1:
   printf("%.2f INR = %.2f USD", amount, amount*0.013);
   printf("\n%.2f INR = %.2f AED", amount, amount*0.047);
   break;
 case 2:
   printf("\n%.2f USD = %.2f INR", amount, amount*77.69);
   printf("\n%.2f USD = %.2f AED", amount, amount*3.67);
   break;
 case 3:
   printf ("\n%.2f AED = %.2f INR", amount, amount*21.15);
   printf ("\n%.2f AED = %.2f USD", amount, amount*0.27);
   break;
 default:
   printf("\nInvalid Input");
}
return 0;
```

Number conversion

}

Binary to Hexadecimal →

```
#include <stdio.h>
int main ()
{
  long int bi, hex = 0, i = 1, m;
  printf ("Enter the binary number: ");
  scanf ("%ld", &bi);
  while (bi != 0)
  {
    m = bi \% 10;
    hex = hex + m * i;
    i = i * 2;
    bi = bi / 10;
  }
  printf ("Equivalent hexadecimal value: %IX", hex);
  return 0;
}
```

Binary to Decimal \rightarrow

```
#include <stdio.h>
#include <math.h>

int main () {
  long long n;
  printf ("Enter a binary number: ");
  scanf ("%lld", &n);
  printf ("%lld in binary = %d in decimal", n, convert(n));
  return 0;
}
int convert(long long n) {
```

```
int dec = 0, i = 0, m;

while (n!=0) {
    m = n % 10;
    n /= 10;
    dec += m * pow (2, i);
    ++i;
}

return dec;
}

Hexadecimal to Binary →

#include<stdio.h>
int main ()
{
```

```
include<stdio.h>
Int main ()

char hexNum[100];
long int count=0;
printf ("Enter a hexadecimal number To Convert it into Binary: ");
scanf ("%s", hexNum);
print f("\n Binary Number is : ");
while(hexNum[count])
{
    switch(hexNum[count])
    {
        case '0' : printf ("0000");
        break;
        case '1' : printf("0001");
        break;
case '2' : printf("0010");
        break;
```

```
case '3': printf("0011");
        break;
case '4': printf("0100");
        break;
case '5': printf("0101");
        break;
case '6': printf("0110");
        break;
case '7': printf("0111");
        break;
case '8': printf("1000");
        break;
case '9': printf("1001");
        break;
case 'A': printf("1010");
        break;
case 'B': printf("1011");
        break;
case 'C' : printf("1100");
        break;
case 'D': printf("1101");
        break;
case 'E': printf("1110");
        break;
case 'F' : printf("1111");
        break;
case 'a' : printf("1010");
        break;
case 'b' : printf("1011");
        break;
case 'c' : printf("1100");
```

```
break;

case 'd': printf("1101");

break;

case 'e': printf("1110");

break;

case 'f': printf("1111");

break;

default: printf("\nInvalid Entry, Please Try Again %c",hexNum[count]);

}

count++;

}

return 0;
```

Decimal to Binary →

```
#include <stdio.h>
int main ()
{
    int a[10], number, i, j;
    printf("\n Please Enter the Number You want to Convert : ");
    scanf("%d", &number);

    for(i = 0; number > 0; i++)
    {
        a[i] = number % 2;
        number = number / 2;
    }
}
```

```
printf ("\n Binary Number of a Given Number = ");
for(j = i - 1; j >= 0; j--) {
    printf(" %d ", a[j]);
}
printf("\n");
return 0;
}
```