CATEGORY (P)

B. Functions without arguments and with return type ,Convert temperature Fahrenheit to Celsius

int main()

{

float fh,cl;

int choice;

printf("\n1: Convert temperature from Fahrenheit to Celsius.");

printf("\n2: Convert temperature from Celsius to Fahrenheit.");

printf("\nEnter your choice (1, 2): ");

scanf("%d",&choice);

if(choice ==1){

printf("\nEnter temperature in Fahrenheit: ");

scanf("%f",&fh);

cl= (fh - 32) / 1.8;

printf("Temperature in Celsius: %.2f",cl);

}

else if(choice==2){

printf("\nEnter temperature in Celsius: ");

scanf("%f",&cl);

fh= (cl\*1.8)+32;

printf("Temperature in Fahrenheit: %.2f",fh);

}

else{

printf("\nInvalid Choice!");

}

return 0;

}

Output:

1: Convert temperature from Fahrenheit to Celsius.

2: Convert temperature from Celsius to Fahrenheit.

Enter your choice (1, 2): 1

Enter temperature in Fahrenheit: 90.6

Temperature in Celsius: 32.56

F. Nesting of Functions , reverse a number

#include<stdio.h>

#include<conio.h>

int main()

{

int number, reverse\_number = 0;

printf("Enter a number to reverse value:");

scanf("%d", &number);

while (number != 0)

{

reverse\_number = reverse\_number \* 10;

reverse\_number = reverse\_number + number % 10;

number = number / 10;

}

printf("Reverse of entered number is: %d", reverse\_number);

return 0;

}

Output:

Enter a number to reverse value:123

Reverse of entered number is: 321

G. Recursive Functions to convert a decimal number to binary

#include <stdio.h>

int convert(int);

int main()

{

int dec, bin;

printf("Enter a decimal number: ");

scanf("%d", &dec);

bin = convert(dec);

printf("The binary equivalent of %d is %d.\n", dec, bin);

return 0;

}

int convert(int dec)

{

if (dec == 0)

{

return 0;

}

else

{

return (dec % 2 + 10 \* convert(dec / 2));

}

}

Output:

Enter a decimal number: 10

The binary equivalent of 10 is 1010.

J.