## **Practical 01**

```
1) #include<stdio.h>
    int main()
    printf("Lasan Sanjula\n");
    printf("Thurstan College");
    return 0;
    }
2) #include<stdio.h>
    int main()
    printf("*\n"); printf("**\n"); printf("***\n");
    printf("****\n"); printf("*****");
    return 0;
    }
3) #include<stdio.h>
    int main()
    int x; float y; double z; char a;
    printf("Enter integer values:");
    scanf("%d",&x);
    printf("Enter decimal values:");
    scanf("%f",&y);
    printf("Enter decimal values:");
    scanf("%if",&z);
    printf("Enter a word\n");
    scanf("%s",&a); printf("integer:%d\n",x);
    printf("decimal:%f\n",y);
    printf("double:%if\n",z);
    printf("characters:%s",a);
    return 0;
    }
```

```
4) #include<stdio.h>
   int main()
   int num1,num2,total;
   scanf("%d",&num1);
   scanf("%d",&num2);
   total=num1+num2;
   printf("Total %d",total);
   return 0;
   }
5) #include<stdio.h>
   int main()
   int num1,num2,num3;
   printf("number 01:",num1);
   scanf("%d",&num1);
   printf("number 02:",num2);
   scanf("%d",&num2);
   num3=num1;
   num1=num2;
   num2=num3;
   printf("number 01:%d\n",num1);
   printf("number 02:%d\n",num3);
   return 0;
   }
6) #include<stdio.h>
   int main()
   char name[23];
   int x;
   int age,y;
   printf("Lasan:");
    scanf("%s",&name);
   printf("2003:");
   scanf("%d",&x);
   printf("Enter the current year:");
   scanf("%d",&y);
   age=y-x;
   printf("name:%s\n",name);
   printf("age:%d\n",age);
   return 0;
   }
```

```
7) #include<stdio.h>
    int main()
    {
    int num1,num2,num3;
    printf("number 01:",num1);
    scanf("%d",&num1);
    printf("number 02:",num2);
    scanf("%d",&num2);
    num3=num1;
    num1=num2;
    num2=num3;
    printf("number 01:%d\n",num1);
    printf("number 02:%d\n",num3);
    return 0;
    }
```

8) The color: blue

First number: 12345 Second number: 0025 Third number: 1234 Float number: 3.14 Hexadecimal: ff

Octal: 377

Unsigned value: 150

Just print the percentage sign %

Practical Number	02
Areas covered	Data Input & output

Write a C program for each of the following question

## **Question 1**

Have the computer print

### HI, HOW OLD ARE YOU?

on one line. The user then enters his or her age immediately after the question mark. The computer then skips two lines and prints on two consecutive lines.

# WELCOME (age) LET'S BE FRIENDS!

Write a complete C program to do the above.

```
#include <stdio.h>
int main()
{
  int age;
  printf("Hi, How Old Are You?");
  scanf("%d",&age);

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

printf("Welcome%d\n", age);

printf ("LET'S BE FRENDS!\n");
}
```

### Question 2

Write a program which uses the **format commands** with modifiers to print the following output:

```
#include<stdio.h>
int main()
{
printf("2 4 8\n");
printf("3 9 27\n");
printf("5 25 125\n");
}
```

### **Question 3**

Write a simple program to evaluate the average speed of a car traveled in meters per second (ms<sup>-1</sup>). Given that

Try using integer variables. What would be the problem? Why? How to fix the problem?

```
#include <stdio.h>
int main()
{
float speed,distance,time;

printf("Enter Your Distance: ",distance);
scanf("%f",&distance);

printf("Enter Your Time: ", time);
scanf("%f",&time);

speed=distance/time;

printf("Your Average Speed is %f",speed);
}
```

# **Question 4**

Convert a temperature reading in degrees Fahrenheit to degrees Celsius, using the formula

$$C = (5/9) \times (F-32)$$

Test the program with the following values: 68, 150, 212, 0, -22, -200 (degree Fahrenheit).

```
#include <stdio.h> int
main()
{
float fahrenhit,celsius;
printf("Enter fahrenhit: ");
scanf("%f",&fahrenhit);

celsius= (5.0/9.0) * (fahrenhit-32);
printf("celsius %.2f",celsius);
}
```