## **ASSIGNMENT-1**

By
Ujval Singh
2023A1R028
1st Semester
CSE



## **Model Institute of Engineering & Technology (Autonomous)**

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with "A" Grade)

Jammu, India

2023

# Question 1 - Write a C program to print Fibonacci series up to a given number of terms.

#### CODE:-

```
//fibonacci sequence
//fi
```

#### **OUTPUT:-**

```
PS C:\Users\hp\Desktop\UJVAL SINGH> cd "c:\Users\hp\Downloads"

PS C:\Users\hp\Downloads> cd "c:\Users\hp\Downloads\"; if ($?) { gcc fibonacci_sequence_forloop.c -o fibonacci_sequence_forloop };

if ($?) { .\fibonacci_sequence_forloop }

Enter the number of iterations

5

0

1

1

2

3

5

PS C:\Users\hp\Downloads>
```

### **Question 2** -Write the program for second largest element in array.

#### CODE:-

```
#include<stdio.h>
    void main()
     {
         printf("Enter the limit\n");//3
         scanf("%d",&n);
         int a[n],i;
         printf("Enter array elements\n");
         for(i=0;i<n;i++)
         scanf("%d",&a[i]);//a[0]=12,a[1]=13,a[2]=14
         int big, sbig;
         big=a[0];sbig=a[1];//let big =12 and sbig =13
13
         for(i=1;i<n;i++)//2<3 here n = 3 1<3
             if(big<a[i])//12<13 true
                 sbig=big;//sbig=12
                 big=a[i];//big=14
             else if(sbig<a[i])</pre>
             sbig=a[i];
         printf("Second largest element is %d\n",sbig);//12 is the second largest number
```

#### **OUTPUT:-**

```
PS C:\Users\hp\Desktop\UJVAL SINGH> cd "c:\Users\hp\Downloads"
PS C:\Users\hp\Downloads> cd "c:\Users\hp\Downloads\" ; if ($?) { gcc 2nd_biggest_element.c -o 2nd_biggest_element } ; if ($?) { .\2nd_biggest_element } ; if ($?) { .\2nd_biggest_elem
```