Department of Computer Science & Engineering Faculty of Engineering & Technology (ITER)

LAB-1
Q1. WAP to find the sum of n integers.
Ans. import java. util. X;
public class al { public static void main (String[] args) }
Se l'Elementobe
System.out.print ("Enter no. of terms to be input: ");
Scanner ec= new Scanner (System.in); int n= sc.next Int();
for (int i=1; i<=n; i++)
Esystem. oud. print ("Enter no:"); int x= sc. next Intl);
sum += x;
System. out. printin ("Sum is: "+ sum).
}

Name:----

```
Q2: WAP to search an element foron the
 array using sequential search.
Ans. import jana. util. x;
    public class &2
       public static void onain (Stringt) args)
         Scanner sc=new Scanner (System.in);
        System. out. print ("Enter no. of term:");
         int n = sc. next Int ();
         int all=new IntIn]:
        for (int i=0; ix a, length; itt)
            a [i) = sc. next Int();
         System. out. println ().
         System. out. print ("Friter element to be
        searched: 1);
         int eles somex + Int ().
         int count = 0;
        for (int i=0; icailength; i++)
            if (ele == a[i])
               System. out. printh ("found").
              count +=1,
```

Name:

Regd. Number:----

7

7

7

7

1

1

)

2

>

)

5

2

5

Ç

5

S

3

3

2

3

2

2

1

2

A

Name:-

```
if (court == 0)
{

System. out. print In ("Not found");
         sc. close (),
Enter no. of term: 5
Enter element to be searched: 3.
Found!
```

Regd. Number:-

```
Q3. WAP to find the factorial of a no.
Ang. import java. util. x;
   Public class Q3
     public etatic void main (String[) angs)
       Scanner ec= new Scanner (System. in):
       System. out. print (" Enter a no."):
       int n = sc. next Int(),
        int count +=1:
        int fact=1:
        while (count <=n)
         fact * = count;
       System. out. println ("Factorial of" + n+
       "is " + fact):
      Sc. close ().
```

6

Regd. Number:-

Name:-

Q3. NAP to find the factorial of a no. Ang. import java. util. x; Public class Q3 public static void main (String[) angs) Scanner ec= new Scanner (System. in); System. out. print (" Enter a no."): int n= scnex+Int(); int count t=1; int fact=1: while (count <=n) fact * = count; count t=1. System. out. println ("Factorial of" + n+ · is " + fact): sc. elose (). Factorial of 5 is 120.

Name:—————Regd.

Regd. Number:

e

```
Qy: WAP to find the maximum and minimum
element from the array of 'n' inputs.
Ans. import java. ntil . x;
    Public class &4
      public etatic void main (String[) angs)
          Scanner sc=new Scanner (System.in);
         System. out. print (" Enter no. of terms ?"),
          int m= sc. next Int();
          int a[] = new int [n]:
          for (int i=0; ica. length; itt)
             a[i] = sc. next Int();
           System. out. printh ();
           int max = a [o].
            int min = a Tol.
          for (int i=0; i < a. length; i++)
              (xan < [:]a) 7:
              { max = ati):
              ( nimera > [i] ) fi
                min=a[i];
```

Man-

System.out.println("Max.element is" to max);

System.out.println("Min.element is" to min);

onin);

Output:

Enter no. of terms: 5

nter no. of Terms: 5

1

8

1

3

Max. element is 8

Min. element is 1

.

Name:----

Q5: Write a program to display n the Filonacci Ans import java. util. *; Public class Q5 public static void main (String[] angs) Scanner sc=new Scanner (System.in). System. out. print (" Enter the term position to diseplays: "), int n= sc. next Int(). int a so; int b=1. int C: int pos=3; System. out pointin (" Frbonacci service:"); if (n==1) System. out. printtn (a); else if (n==2) System.out. println (6).

Name:--

```
cohile (pos(=n))

C = a+b;

a = b;

b = C;

pos +=1;

y

System. out. println (*n+"th Fibonacci
no. is "+b);
```

Output :

Name:-

Enter the term position to display: 7 7th Fibonacci no. is 8

Regd. Number:---

```
Q6. Write a program to search an element
for an array wing binary rearch.
(let all the element input is in according or ).
 descending order
Aus import java. util. *;
    public class Q6
      public static void main (String[] args)
         Scanner sc=new Scanner (System.in);
        System.out. print ("Enter no. of term:"),
         int nescenext Int();
         int a [] = new int [n];
        for (int i=0; i< a. length; itt)
           a [i] = sc. next Int():
         System. out. printta ("Enter the no. to be
        searched: ");
         int x = sc. next Int();
         int count = 0:
         int start = 0:
         intera=n-1;
         while (start <= end)
           int mid= (start + end) 2;
```

Name:----

```
of (x == a[mid])
     System. out. println ("Element
formal!");
       count t=1;
       break;
   else if (xca[mid])
      end=mid-1.
   else
      stant = mid +1.
if ( count ==0)
  System. out. pointh ("Not found").
Enter no. of terms : 5
 20
 20
 40
 50
Enter the no. to be searched: 78
Not found!
```

Name: Regd. Number:-