**Array**

**➢ Write a program to sum up all the elements of an array.**

**PROGRAM**

class SumArray

{

public static void main(String args[])

{

int a[]={1,2,3,4,5};

int sum=0;

for(int i=0;i<a.length;i++)

{

sum=sum+a[i];

}

System.out.println("sum is " +sum);

}

}

**OUTPUT**

C:\Users\user\Desktop\java>javac SumArray.java

C:\Users\user\Desktop\java>java SumArray

sum is 15

**➢ Write a program to add two matrices.**

**PROGRAM**

class Matrix

{

public static void main(String args[])

{

int a[][]={{1,2,3},{4,5,6},{7,8,9}};

int b[][]={{9,8,7},{6,5,4},{3,2,1}};

int c[][]=new int[3][3];

for(int i=0;i<a.length;i++)

{

for(int j=0;j<b.length;j++)

{

c[i][j]=a[i][j]+b[i][j];

System.out.print(c[i][j] +"\t");

}

System.out.println();

}

}

}

**OUTPUT**

C:\Users\user\Desktop\java>javac Matrix.java

C:\Users\user\Desktop\java>java Matrix

10 10 10

10 10 10

10 10 10

**➢ Write a program to search array element with Linear Search.**

**PROGRAM**

class LinearSearch

{

public static void main(String args[])

{

int a[]={20,60,90,35,70};

int number=70;

for(int i=0;i<a.length;i++)

{

if(number==a[i])

{

System.out.println("index is :" +i);

System.out.println("number is :" +a[i]);

}

else

{

System.out.println("number not found");

}

}

}

}

**OUTPUT**

C:\Users\user\Desktop\java>javac LinearSearch.java

C:\Users\user\Desktop\java>java LinearSearch

number not found

number not found

number not found

number not found

index is :4

number is :70