

### **LAB EVOLUTION 3 – JAVA**

**Q. WRITE A PROGRAM TO ADD ALL THE PRIME NOS IN THE SPECIFIC MATRIX.**

```
import java.util.Scanner;

class Matrix
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);

        int MAX=50;

        int arr[][]=new int[MAX][MAX];

        int row,col;

        System.out.println("Enter The number of rows: ");
        row=sc.nextInt();

        System.out.println("Enter the number of columns: ");
        col=sc.nextInt();

        System.out.println("Enter The Elements of the Matrix Row Wise:");
        for(int i=0;i<row;i++)
        {
            for(int j=0;j<col;j++)
            {
                arr[i][j]=sc.nextInt();
            }
        }

        //Displaying the Matrix

        System.out.println("Matrix is:");
        for(int i=0;i<row;i++)
```

```

{
    for(int j=0;j<col;j++)
    {
        System.out.print(arr[i][j]+" ");
    }
    System.out.println("");
}

//finding sum of prime numbers
int sum=0;

for(int i=0;i<row;i++)
{
    for(int j=0;j<col;j++)
    {
        int chk=0;
        for(int k=2;k<=arr[i][j]/2;k++)
        {
            if(arr[i][j]%k==0)
            {
                chk=1;
            }
        }
        if(chk==0)
        {
            if(arr[i][j]!=1)
                sum+=arr[i][j];
        }
    }
}

```

```
}
```

```
System.out.println("Sum of Prime numbers of the matrix is =" +sum);
```

```
}
```

```
}
```