**JAVA PROGRAMMING LAB-EX-1**

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**4. Prime Checking Write a program that prompts the user to input a positive integer. It should then output a message indicating whether the number is a prime number.**

**Program:**

import java.util.\*;

class prime

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number:");

int a=sc.nextInt();

int i,flag=0;

for(i=2;i<=a/2;i++)

{

if(a%i==0)

{

System.out.println(a+" is not a prime number");

flag=1;

break;

}

}

if(flag==0){

System.out.println(a+" is a prime number"); }

}

}

**Output:**

