# 06. PROBLEM:

To check if a number is prime or not,by taking the number as input from the keyboard.

# SOURCECODE:

import java.io.\*;

public class prime

{

public static void main(String args[])throws IOException

{

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

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

String str=br.readLine();

int f=0;

int x=Integer.parseInt(str);

for(int i=2;i<x/2;i++)

{

if(x%i==0)

{

f=1;

break;

}

}

if(f==1)

{

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

}

else

{

System.out.println("The number is prime.");

}

}

}

# OUTPUT:

Enter the number:

5

The number is prime.

# DISCUSSION:

1.First here we import io package of java for doing io operations.

2.Here we create class prime and in main we take the number to check whether it is prime or not from the user using bufferedreader.

3.As we know BufferedReader generate IOException so at the declaration of main method we throw IOException so that it can not generate any exception in the program.

4.Then we check the number that it is prime or not.If prime then we print "The number is prime."

And in case of not prime we print "The number is not prime."