Q1) Print the following pattern using nested for loop:

```
a) *
# #
* * *
```

Program:

```
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```

```
Enter the number of rows required:

5

*

# #

* * *

# # #

* * * *
```

Program:

```
Enter the rows:

5

#
* #
* * #
* * * #
* * * * #
```

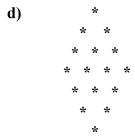
```
c) 1
1 #
1 2 #
1 2 3 #
```

Program:

```
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```

```
Enter the rows:

1
1 #
1 2 #
1 2 3 #
1 2 3 4 #
```



Program:

Q2) Read a number and check whether its prime number or not

```
ackage com.lab assesment1; //package name
            Scanner input=new Scanner(System.in); //creating object for scanner
            System.out.print("Enter the number : ");
            num=input.nextInt();
            input.close();
            System.out.println();
                  System.out.println(num+" is not prime number");
                  System.out.println(num+" is prime number");
                        System.out.println(num+" is prime number");
                         System.out.println(num+" is not prime number");
```

```
Enter the number: 5

5 is prime number

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Enter the number: 9

9 is not prime number
```

Q3) Program to read a number and check given number is perfect number or not

```
Enter the number : 4

4 is not a perfect number

Enter the number : 6

6 is a perfect number
```