Practical 5 Write an interactive program to print a diamond shape.
For example, if user enters the number 3, the diamond will be as
follows:

```
    *
   * *
  * * *
   * *
    *
```

import java.util.Scanner;

class prac5_2

{

      public static void main(String args[])

      {

            Scanner scan = new Scanner(System.in);

            int x;

            System.out.println(" Enter Number : ");

            x = scan.nextInt();

            for(int i = 0; i < x; i++)

            {

                  for(int k = x - 1 - i; k > 0; k--)

                        System.out.print(" ");

                  for(int j = 0; j <= i; j++)
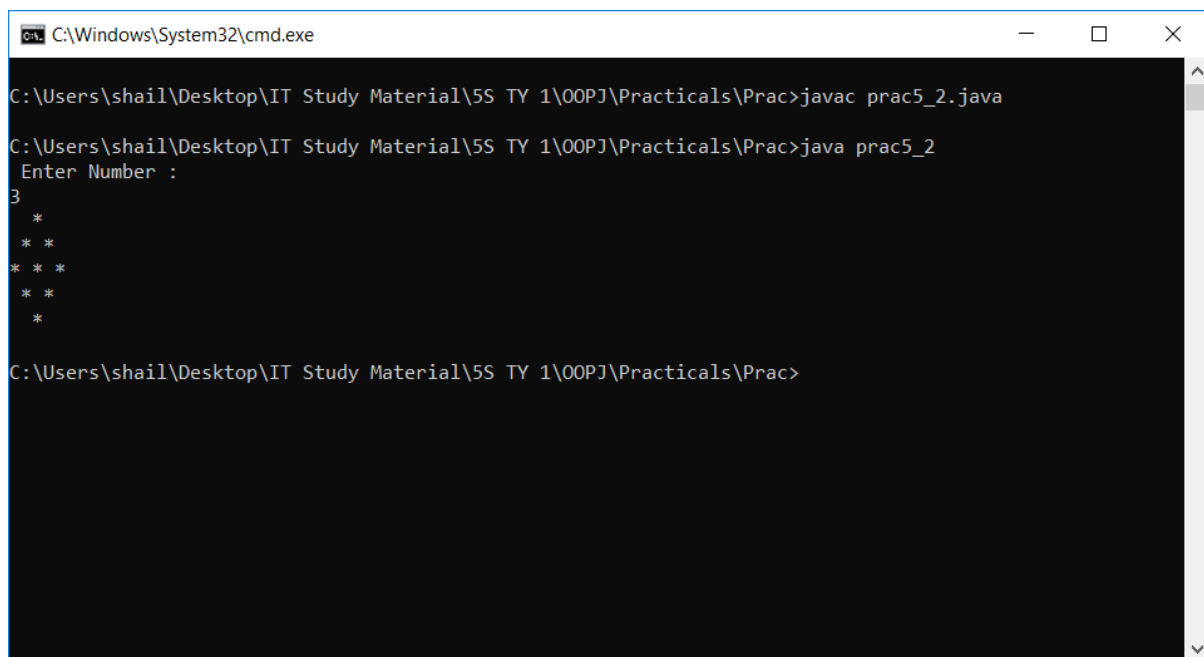
                        System.out.print("* ");

                  System.out.println();

            }

            for(int i = 0; i < x - 1; i++)

            {

                  for(int k = 1; k <= 1 + i; k++)

```java
                    System.out.print(" ");

                for(int j = x - 1 - i; j > 0; j--)

                        System.out.print("* ");

                System.out.println();

            }


        }

    }
```

```
C:\Windows\System32\cmd.exe                                        —    □    ×

C:\Users\shail\Desktop\IT Study Material\5S TY 1\OOPJ\Practicals\Prac>javac prac5_2.java

C:\Users\shail\Desktop\IT Study Material\5S TY 1\OOPJ\Practicals\Prac>java prac5_2
 Enter Number :
3
  *
 * *
* * *
 * *
  *

C:\Users\shail\Desktop\IT Study Material\5S TY 1\OOPJ\Practicals\Prac>
```