Write Java programs for the following:

1. Input a number and print all the factors of that number.
2. Take integer inputs till the user enters 0 and print the sum of all numbers
(HINT: while loop).
3. Take integer inputs till the user enters 0 and print the largest number from
all.
4. Print all even numbers till n.
5. Make a menu driven program. The user can enter 2 numbers, either 1 or 0.
If the user enters 1 then keep taking input from the user for a student's marks(out of 100).
If they enter 0 then stop.
If he/ she scores :
Marks >=90 -> print "This is Good"
89 >= Marks >= 60 -> print "This is also Good"
59 >= Marks >= 0 -> print "This is Good as well"
Because marks don't matter but our effort does.
(Hint : use do-while loop but think & understand why)
6. Print if a number is prime or not (Input n from the user).

==========PRINT USING LOOPS==========

7.
```
* * * * *
* * * * *
* * * * *
* * * * *
```

8.
```
* * * * *
*       *
*       *
* * * * *
```

9.
```
*
* *
* * *
* * * *
```

10.
```
* * * *
* * *
* *
*
```

11.
```
      *
    * *
  * * *
* * * *
```

12.
```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

13.
```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

14.
```
1
2  3
4  5  6
7  8  9  10
11 12 13 14
```

15.
```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

16.
```
*             *
* *         * *
* * *     * * *
* * * * * * * *
* * * * * * * *
* * *     * * *
* *         * *
*             *
```

17.
```
        * * * * *
      * * * * *
    * * * * *
  * * * * *
* * * * *
```

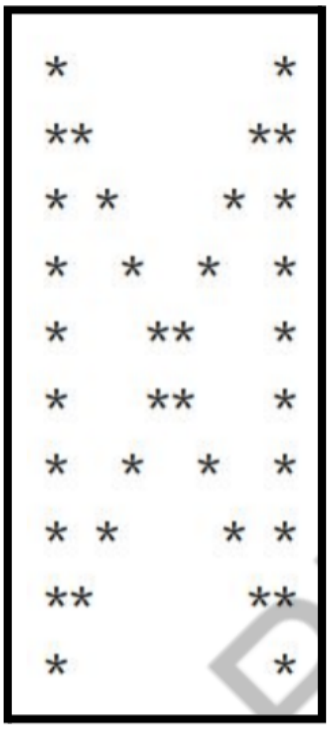
18.
```
    1
   2 2
  3 3 3
 4 4 4 4
5 5 5 5 5
```

19.
```
    1
   212
  32123
 4321234
543212345
```

20.

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

21. Print a hollow Butterfly



22. Print a hollow Rhombus.

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

23. Print Pascal's Triangle.

```
    1
   1 1
  1 2 1
 1 3 3 1
1 4 6 4 1
```

24. Print half Pyramid.

```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
```

25. Print Inverted Half Pyramid.

```
11111
222
33
4
```