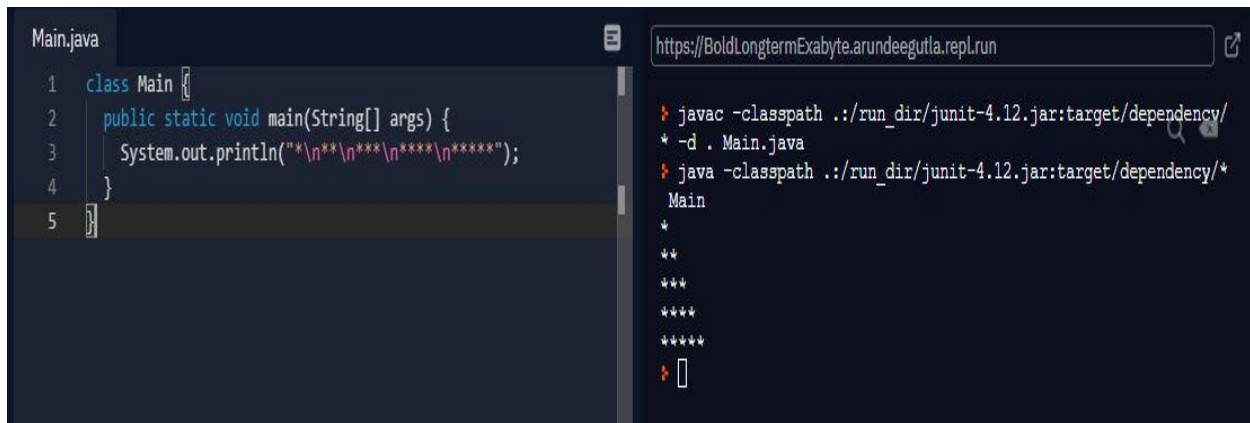


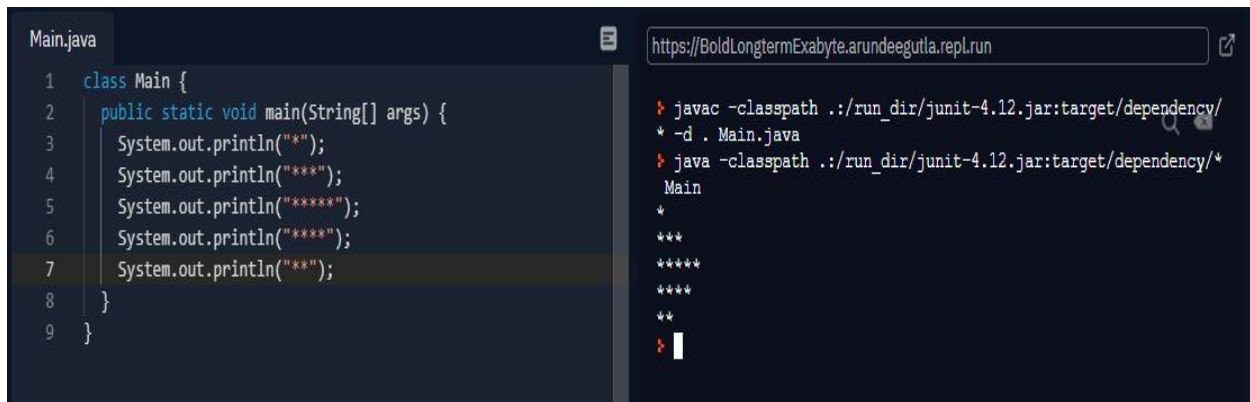
## 2.19



```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         System.out.println("\n*\n***\n*****\n***\n\n");
4     }
5 }
```

```
https://BoldLongtermExabyte.arundegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
*
***
*****
***
\n
```

## 2.20



```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         System.out.println("*");
4         System.out.println("***");
5         System.out.println("*****");
6         System.out.println("*****");
7         System.out.println("***");
8     }
9 }
```

```
https://BoldLongtermExabyte.arundegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
*
***
*****
*****
***
\n
```

## 2.21

```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         System.out.print("*");
4         System.out.print("****");
5         System.out.print("*****");
6         System.out.print("*****");
7         System.out.println("***");
8     }
9 }
```

```
https://BoldLongtermExabyte.arundeegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
*****
|
```

## 2.22

```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         System.out.print("*");
4         System.out.println("****");
5         System.out.println("*****");
6         System.out.print("*****");
7         System.out.println("***");
8     }
9 }
```

```
https://BoldLongtermExabyte.arundeegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
****
*****
*****
|
```

## 2.23

```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         System.out.printf("%s\n%s\n%s\n", "*", "****", "*****");
4     }
5 }
```

```
https://BoldLongtermExabyte.arundeegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
*
***
*****
|
```

## 2.24

```
Main.java
1 import java.util.Scanner;
2 class Main {
3     public static void main(String[] args) {
4         Scanner number = new Scanner(System.in);
5         int biggest;
6         int smallest;
7         System.out.println("First Number?: ");
8         int num1 = number.nextInt();
9
10        System.out.println("Second Number?: ");
11        int num2 = number.nextInt();
12
13        System.out.println("Third Number?: ");
14        int num3 = number.nextInt();
15
16        System.out.println("Fourth Number?: ");
17        int num4 = number.nextInt();
18
19        System.out.println("Fifth Number?: ");
20        int num5 = number.nextInt();
21
22        biggest = num1;
23        smallest = num1;
24
25        if(num2 > biggest){
26            biggest = num2;
27        }
```

```
https://BoldLongtermExabyte.arundegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
First Number?:
2
Second Number?:
4
Third Number?:
5
Fourth Number?:
7
Fifth Number?:
8
Largest is: 8
Smallest is: 2
```

## 2.25

```
Main.java
1 import java.util.Scanner;
2 class Main {
3     public static void main(String[] args) {
4         Scanner num = new Scanner(System.in);
5         System.out.println("Nume???: ");
6         int number1 = num.nextInt();
7
8         if(number1%2 != 0){
9             System.out.println("It is Odd!");
10        }
11        else{
12            System.out.println("It is even");
13        }
14    }
15 }
```

```
https://asdfa.arundegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
Nume???:
3
It is Odd!
```

## 2.26

```
Main.java
1 import java.util.Scanner;
2 class Main {
3     public static void main(String[] args) {
4         Scanner num = new Scanner(System.in);
5         System.out.println("First Numer??: ");
6         int number1 = num.nextInt();
7         System.out.println("Second Numer??: ");
8         int number2 = num.nextInt();
9
10        if(number1%number2 != 0){
11            System.out.println(number1 + " is not divisible by "
12                               + number2);
13        }
14        else{
15            System.out.println(number1 + " is divisible by " +
16                               number2);
17        }
18    }
19 }
```

```
https://asdfa.arundeegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
First Numer??:
30
Second Numer??:
5
30 is divisible by 5
```

## 2.31

```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         int num = 0;
4         System.out.println("number"+" "+"square"+" "+"cube");
5         for(int i= 0; i < 11; i++){
6             System.out.println(num + " " + " " + Math.pow(num, 2) + " " +
7                                   Math.pow(num, 3));
8             num++;
9         }
10    }
11 }
```

```
https://asdfa.arundeegutla.repl.run
javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
number square cube
0 0.0 0.0
1 1.0 1.0
2 4.0 8.0
3 9.0 27.0
4 16.0 64.0
5 25.0 125.0
6 36.0 216.0
7 49.0 343.0
8 64.0 512.0
9 81.0 729.0
10 100.0 1000.0
```

## 2.33

```
Main.java
1 import java.util.Scanner;
2 class Main {
3     public static void main(String[] args) {
4         Scanner num = new Scanner(System.in);
5         System.out.println("Enter bodyweight in Pounds: ");
6         double weight = num.nextInt();
7         System.out.println("Enter height in Inches: ");
8         double height = num.nextInt();
9         double bmi = (weight*703) / Math.pow(height, 2);
10        System.out.println("Your BMI is: " + bmi);
11        System.out.println("BMI VALUES\nUnderweight: less than 18.5\nNormal:
between 18.5 and 24.9\nOverweight: between 25 and 29.9\nObese: 30 or
greater");
12    }
13 }
```

```
https://asdfa.arundegutla.repl.run
> javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.j
ava
> java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
Enter bodyweight in Pounds:
160
Enter height in Inches:
70
Your BMI is: 22.955102040816328
BMI VALUES
Underweight: less than 18.5
Normal: between 18.5 and 24.9
Overweight: between 25 and 29.9
Obese: 30 or greater
> 
```