

```

/*
Name: Zainulabdin Bughio
ICS4UA.3
Code name: vertical star printer
*/
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in); //makes a new scanner
        System.out.println("enter your number");
        int number = scanner.nextInt(); //takes the next input
        int i = 0;
        while(i <= number){ // while loop so that while i is less than the user input, it prints a star and
            raises it by one.
                System.out.println("*");
                i++;
            }
        }
    }
}

```

```

/*
Name: Zainulabdin Bughio
ICS4UA.3
Code name: horizontal star printer
*/

import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in); //makes a new scanner
        System.out.println("enter your number");
        int number = scanner.nextInt(); //takes the next input
        int i = 0;
        while(i <= number){ // while loop so that while i is less than the user input, it prints a star and
            raises it by one.
                System.out.print("* "); //print because it keeps it in the same line
                i++;
            }
        }
    }
}

```

```

/*
Name: Zainulabdin Bughio
ICS4UA.3
Code name: star printer
*/
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in); //makes a new scanner
        System.out.println("enter your number");
        int number = scanner.nextInt(); //takes the next input
        int i = 0;
        int y = 0;
        while(y <= number) { //loop used to change lines and go to a new line

            System.out.println("");
            i = 0; //resets i so that it can be ran again in the while loop below
            y++;
            while(i <= number) { // while loop so that while i is less than the user input, it prints a star
and raises it by one.
                System.out.print("*"); //print because it keeps it in the same line
                i++;
            }

        }
    }
}

```

```

/*
Name: Zainulabdin Bughio
ICS4UA.3
Code name: average calculator
*/
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in); //makes a new scanner
        System.out.println("enter the number of students");
        int number = scanner.nextInt(); //takes the next input
        int i = 0;
        int y = 0;
        double totalmark = 0;

```

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while(y<number){
    Scanner grade = new Scanner(System.in);
    System.out.println("enter student grade ");
    i = grade.nextInt();//asks for a new value of grade everytime i changes.

    totalmark = totalmark + i;//the total mark is updated to keep track of all the total numbers
    y++;
    i++;
    System.out.println("");
    System.out.println(" current total is " + totalmark);

}
double classaverage= totalmark/number;
System.out.println("the class average is " + classaverage);

}
}

```

```

/*
Name: Zainulabdin Bughio
course name: ICS4UA.3
Code name:password checker
*/
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);//makes a new scanner
        System.out.println("enter your password");
        String rightpassword = scanner.nextLine();//takes the next input

        Scanner checker = new Scanner(System.in);//another scanner to take input from
        System.out.println("enter password ");
        String wrong = checker.nextLine();
        while(!wrong.equals(rightpassword)){//while the password input by the user does not match
the password put in the beginning. It will keep telling you to input the correct password.

            System.out.println("password is wrong, enter again");
            wrong = checker.nextLine();

        }
    }
}

```

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        System.out.println("password is correct");
    }
}

```

```

/*

```

Name: Zainulabdin Bughio

course name: ICS4UA.3

Code name: information for a given range of numbers

```

*/

```

```

import java.util.Scanner;

```

```

import java.util.ArrayList;//makes my life easier, allows me to make use of arraylists which are
easy to add, remove or get things from

```

```

class Main {

```

```

    public static void main(String[] args) {

```

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        Scanner scanner = new Scanner(System.in);

```

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        ArrayList<Integer> a = new ArrayList<>();//arraylist that will only store numbers

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        String numbuilder = "";

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        System.out.println("enter the range of numbers");

```

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        String range = scanner.nextLine();

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        for(int i=0;i<range.length();i++){//breaks apart the user input so that user can enter 2 digit
numbers as well. checks the character at each place and if its a digit, it will store it in a empty
string initialized above.

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            char num = range.charAt(i);

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            if(Character.isDigit(num)){

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                numbuilder+=num;

```

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            }else if(!numbuilder.isEmpty()){

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                a.add(Integer.parseInt(numbuilder));

```

```

                numbuilder = "";//empties the string so that another number can be built

```

```

            }

```

```

        }

```

```

        if(!numbuilder.isEmpty()){//outside the loop so that the last number that is stored in the
empty string is also stored in the string.

```

```

            a.add(Integer.parseInt(numbuilder));

```

```

        }

```

```

        System.out.println(a);

```

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        int start = a.get(0);

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        int end = a.get(1);

```

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        int b = start;

```

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        while(b>=start && b<=end){//while b is in the range of numbers, it will print the things
asked for that range.

```

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            System.out.println(" current number in your range " + range + " is " + b);

```

```
System.out.println("number squared is " + Math.pow(b,2));  
System.out.println("number squarerooted is " + Math.sqrt(b));  
System.out.println(" number cubed is " + Math.pow(b,3));  
System.out.println(""); //make it easier to read.  
b++; //increment to go through the entire range
```

```
    }  
}
```

```
}
```