OBJECT ORRIENTED PROGRAMMING (OOPS)

ASSIGNMENT - 1

SUBMITTED BY - KHUSHHAL

SUBMITTED TO - ABHISHEK KUMAR TIWARI

UNIVERSITY ROLL NO - GLA2022-13060018

SECTION - P

CLASS ROLL NO - 33

YEAR - 2ND YEAR

Q. 7 Write a program in Java to print Multiplication table of N number.

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Main.java

```java
// Question 7. Print the Multiplication table of N number.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number for which you want to print table");
        int N = sc.nextInt();

        for(int i=1;i<=10;i++){
            System.out.println(N+" "+"*"+" "+i+" "+"="+" "+N*i);
        }
    }
}
```

input

```
Enter the number for which you want to print table
9
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
```

Q. 10 Write a program in Java to print all Odd numbers from 1 to N.

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Main.java

```java
// Question 10. Print all the Odd numbers from 1 to N.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int i = 1;

        while(i<=N){
            System.out.print(i+" ");
            i=i+2;
        }
    }
}
```

input

```
9
1 3 5 7 9

...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 2 Write a program in Java to print sum of 2 numbers.

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Main.java

```java
// Question 2. Print the sum of 2 numbers.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        // YOUR CODE GOES HERE

        int a = sc.nextInt();
        int b = sc.nextInt();
        System.out.print(a+b);
    }
}
```

input

```
7
9
16

...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 9 Write a program in Java to print all Natural numbers from N to 1.

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Main.java

```java
// Question 9. Print all the Natural number from N to 1.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int i = 1;

        while(i<=N){
            System.out.print(N+" ");
            N--;
        }
    }
}
```

input

```
8
8 7 6 5 4 3 2 1

...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 6 Write a program in Java to print Area of a Rectangle.

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Main.java

```java
// Question 6. Print the Area of a rectangle.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        float area = 0;
        float l = sc.nextFloat();
        float b = sc.nextFloat();

        area = l*b;
        System.out.println("The Area of a rectangle is" + area );
    }
}
```

input

```
12
5.2
The Area of a rectangle is62.399998


...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 4 Write a program in Java to print Perimeter of a square.

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Main.java

```java
// Question 4. Print the perimeter of a square.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        float square = 0;
        float a = sc.nextFloat();

        square = 4*a;
        System.out.println("The perimeter of a square is" + square);
    }
}
```

input

```
7
The perimeter of a square is28.0


...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 3 Write a program in Java to print the following staircase pattern -

*****

****

***

**

*

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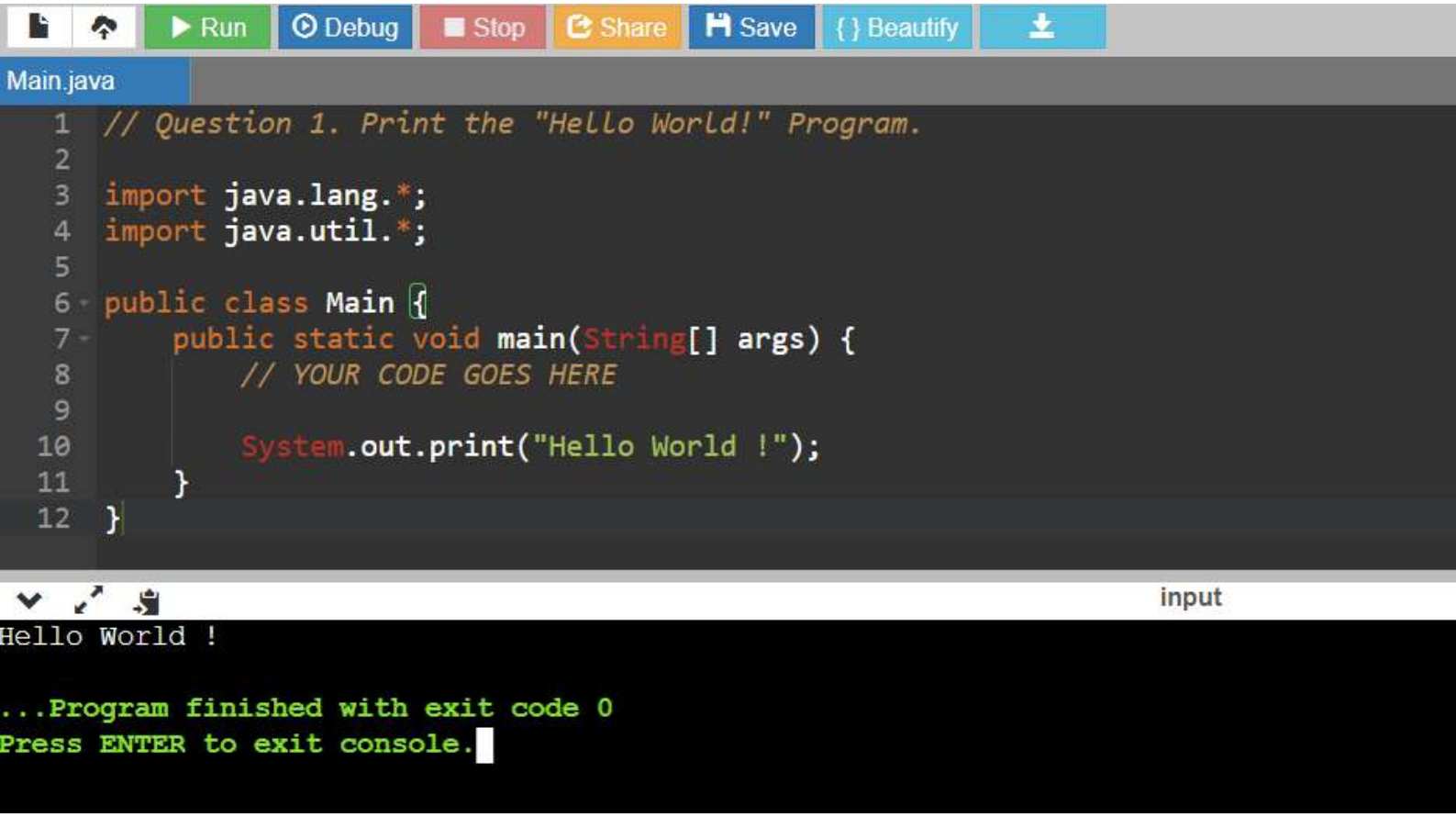
Main.java

```java
/* Question 3. Print the following staircase pattern using "*" -
                *****
                ****
                ***
                **
                *
*/

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        System.out.println("*****");
        System.out.println("****");
        System.out.println("***");
        System.out.println("**");
        System.out.println("*");
    }
}
```

input

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

Q. 1 Write a program in Java to print "Hello World!" program.



Q. 5 Write a program in Java to print the Perimeter of a rectangle.

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Main.java

```java
// Question 5. Print the perimeter of a rectangle.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        float perimeter = 0;
        float l = sc.nextFloat();
        float b = sc.nextFloat();

        perimter = 2*(l+b);
        System.out.println("The perimeter of a rectangle is" + perimeter );
    }
}
```

input

```
7
The perimeter of a square is28.0


...Program finished with exit code 0
Press ENTER to exit console.
```

Q. 8 Write a program in Java to print all Natural numbers from 1 to N.

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Main.java

```java
// Question 8. Print all the Natural number from 1 to N.

import java.lang.*;
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // YOUR CODE GOES HERE

        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int i = 1;

        while(i<=N){
            System.out.print(i+" ");
            i++;
        }
    }
}
```

input

```
10
1 2 3 4 5 6 7 8 9 10

...Program finished with exit code 0
Press ENTER to exit console.
```