OBJECT ORRIENTED PROGRAMMING (OOPS)

ASSIGNMENT - 1

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UNIVERSITY ROLL NO - GLA2022-13060018

SECTION - P

CLASS ROLL NO - 33

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

```
▶ Run
                 O Debug
                                           H Save
                                                               4
Main.java
      // Question 7. Print the Multiplication table of N number.
      import java.lang.*;
      import java.util.*;
   6 public class Main {
          public static void main(String[] args) {
              Scanner sc = new Scanner(System.in);
  11
                  tem.out.println("Enter the number for which you want to print table");
              int N = sc.nextInt();
  12
  13
              for(int i=1;i<=10;i++){
                   System.out.println(N+" "+"*"+" "+i+" "+"="+" "+N*i);
  16
  17
          }
      }
                                                                      input
Enter the number for which you want to print table
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.

```
O Debug
                                            H Save
          ▶ Run
                            Stop
Main.java
      // Question 10. Print all the Odd numbers from 1 to N.
   3 import java.lang.*;
4 import java.util.*;
   6 - public class Main {
          public static void main(String[] args) {
              // YOUR CODE GOES HERE
              Scanner sc = new Scanner(System.in);
  11
              int N = sc.nextInt();
  12
               int i = 1;
              while(i<=N){
                         .out.print(i+" ");
                   i=i+2;
               }
          }
  19 }
                                                                         input
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.

```
► Run
                  O Debug
                           ■ Stop
                                   C Share
                                            H Save
                                                    {} Beautify
                                                                ±
Main.java
      // Question 2. Print the sum of 2 numbers.
      import java.lang.*;
     import java.util.*;
   6 public class Main {
          public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               // YOUR CODE GOES HERE
  10
  11
               int a = sc.nextInt();
  12
               int b = sc.nextInt();
  13
               System.out.print(a+b);
  14
      }
                                                                        input
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.

```
▶ Run
                  O Debug
                            ■ Stop
                                             H Save
Main.java
      // Question 9. Print all the Natural number from N to 1.
      import java.lang.*;
     import java.util.*;
   6 public class Main {
          public static void main(String[] args) {
    // YOUR CODE GOES HERE
               Scanner sc = new Scanner(System.in);
               int N = sc.nextInt();
  11
               int i = 1;
               while(i<=N){
                         m.out.print(N+" ");
               }
           }
      }
                                                                          input
        5
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.

```
Run
                 O Debug
                                          H Save
                          Stop
                                 Share
Main.java
   1 // Question 6. Print the Area of a rectangle.
     import java.lang.*;
     import java.util.*;
   6 public class Main {
          public static void main(String[] args) {
              // YOUR CODE GOES HERE
              Scanner sc = new Scanner(System.in);
  11
              float area = 0;
              float 1 = sc.nextFloat();
  12
  13
              float b = sc.nextFloat();
  14
  15
              area = 1*b;
              System.out.println("The Area of a rectangle is" + area );
          }
      }
V / 5
                                                                     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.

```
▶ Run O Debug ■ Stop  Share  Save
                                                                                                                Lang
   1 // Question 4. Print the perimeter of a square.
  3 import java.lang.*;
4 import java.util.*;
   6 - 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();
  12
              square = 4*a;
                 tem.out.println("The perimeter of a square is" + square);
          }
  17 }
Y / 3
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 -

**** **** ***

```
► Run
                    O Debug
                               ■ Stop
                                       C Share
                                                 H Save
                                                           { } Beautify
Main.java
   1 /* Question 3. Print the following staircase pattern using "*" -
                         ****
                         ***
   9 import java.lang.*;
  10 import java.util.*;
  11
  12 public class Main {
            public static void main(String[] args) {
  13 -
  14
                // YOUR CODE GOES HERE
  15
                 System.out.println("*****");
  16
                 System.out.println("****");
System.out.println("***");
System.out.println("**");
  17
  18
  19
                System.out.println("*");
  20
  21
            }
       }
  22
                                                                                  input
* *
```

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

```
Run
                 O Debug
                          Stop
                                         H Save
Main.java
     // Question 1. Print the "Hello World!" Program.
     import java.lang.*;
     import java.util.*;
  6 - public class Main {
          public static void main(String[] args) {
             // YOUR CODE GOES HERE
              System.out.print("Hello World !");
 10
 11
          }
 12 }
V / 3
                                                                     input
Hello World !
... Program finished with exit code 0
Press ENTER to exit console.
```

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

```
▶ Run
                 O Debug
                          ■ Stop  Share  Save
                                                               ±
 L
Main.java
     // Question 5. Print the perimeter of a rectangle.
      import java.lang.*;
import java.util.*;
      public class Main {
          public static void main(String[] args) {
              Scanner sc = new Scanner(System.in);
              float perimeter = 0;
              float 1 = sc.nextFloat();
              float b = sc.nextFloat();
              perimter = 2*(1+b);
                  tem.out.println("The perimeter of a rectangle is" + perimeter );
          }
V / 3
                                                                       input
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.

```
H Save
                 O Debug
          Run
                                  C Share
                          Stop
Main java
   1 // Question 8. Print all the Natural number from 1 to N.
   3 import java.lang.*;
     import java.util.*;
   6 - public class Main {
          public static void main(String[] args) {
              // YOUR CODE GOES HERE
              Scanner sc = new Scanner(System.in);
  11
              int N = sc.nextInt();
  12
              int i = 1;
  13
              while(i<=N){
  14 -
                       em.out.print(i+" ");
  15
  17
              }
          }
      }
Y / .
                                                                      input
1 2 3 4 5 6 7 8 9 10
... Program finished with exit code 0
Press ENTER to exit console.
```