



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Computer Programming Java

MOODLE LAB TASK 1

Faculty: Dr.Sathya Raj R

Slot: L3+L4+L29+L30

Venue: SJT 515

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Q1. Write a Java code to print “Hello World”.

Code:

```
public class Hello_World {  
    public static void main(String[] args) {  
        System.out.println("Hello World");  
    }  
}
```

OUTPUT:

A screenshot of an IDE window titled 'Hello_World.java > ...'. The editor shows the following Java code:

```
1 public class Hello_World {  
    Run | Debug  
2     public static void main(String[] args) {  
3         System.out.println(x:"Hello World");  
4     }  
5 }  
6
```

Below the editor, the 'TERMINAL' tab is active, showing the command prompt output:

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive\Hello_World" & java Hello_World  
Hello World  
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>
```

Q2. Write a java code to find the greatest of 3 numbers.

Code:

```
import java.util.*;

public class Greatestof3 {

    public static void main(String args[])
    {
        int a=10,b=20,c=30;
        if(a>b && a>c)
        {
            System.out.println("A is greatest");
        }
        else if (b>a && b>c)
        {
            System.out.println("B is greatest");
        }
        else
        {
            System.out.println("C is greatest");
        }
    }
}
```

OUTPUT:

```
J Greatestof3.java 1 X
J Greatestof3.java > Greatestof3
1  import java.util.*;
2  public class Greatestof3 {
3      Run | Debug
4      {
5          int a=10,b=20,c=30;
6          if(a>b && a>c)
7          {
8              System.out.println(x:"A is greatest");
9          }
10         else if (b>a && b>c)
11         {
12             System.out.println(x:"B is greatest");
13         }
14         else
15         {
16             System.out.println(x:"C is greatest");
17         }
18     }
19 }

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS
• PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive
  reatestof3 }
  C is greatest
○ PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> []
```

Q3. Write a Java code to print all arithmetic operations (+, -, *, /, %) using 2 numbers.

Code:

```
import java.util.*;

public class ArithmeticOperations {
    public static void main(String[] args) {
        int num1 = 25;
        int num2 = 5;

        int sum = num1 + num2;
        int difference = num1 - num2;
        int product = num1 * num2;
        int quotient = num1 / num2;
        int remainder = num1 % num2;

        System.out.println("Sum: " + sum);
        System.out.println("Difference: " + difference);
        System.out.println("Product: " + product);
        System.out.println("Quotient: " + quotient);
        System.out.println("Remainder: " + remainder);
    }
}
```

OUTPUT:

J ArithmeticOperations.java > ...

```
1  import java.util.*;
2  public class ArithmeticOperations {
    Run | Debug
3      public static void main(String[] args) {
4          int num1 =25;
5          int num2 =5;
6
7          int sum = num1 + num2;
8          int difference = num1 - num2;
9          int product = num1 * num2;
10         int quotient = num1 / num2;
11         int remainder = num1 % num2;
12
13         System.out.println("Sum: " + sum);
14         System.out.println("Difference: " + difference);
15         System.out.println("Product: " + product);
16         System.out.println("Quotient: " + quotient);
17         System.out.println("Remainder: " + remainder);
18     }
19 }
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7" & { java ArithmeticOperations }

Sum: 30

Difference: 20

Product: 125

Quotient: 5

Remainder: 0

PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>

Q4. Write a Java code to print all odd number till 25.

Code:

```
public class OddNumbers {  
    public static void main(String[] args) {  
        for (int i = 1; i <= 25; i++) {  
            if (i % 2 != 0) {  
                System.out.println(i);  
            }  
        }  
    }  
}
```

OUTPUT:

OddNumbers.java > OddNumbers > main(String[])

```
1 public class OddNumbers {
    Run | Debug
2     public static void main(String[] args) {
3         for (int i = 1; i <= 25; i++) {
4             if (i % 2 != 0) {
5                 System.out.println(i);
6             }
7         }
8     }
9 }
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7\src\com\example\dNumbers }
```

1
3
5
7
9
11
13
15
17
19
21
23
25

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>
```


Q5. Write a Java code to print the pattern.

**

*

Code:

```
import java.util.*;

public class Pattern_2 {
    public static void main(String[] args) {
        for (int i = 0; i < 5; i++) { // Loop for rows
            for (int j = 0; j <=i; j++) { // Loop for columns
                System.out.print("*");
            }
            System.out.println(); // Move to the next line after each row
        }
    }
}
```

OUTPUT:

```
J Pattern_2.java > Pattern_2 > main(String[])
1  import java.util.*;
2  public class Pattern_2 {
    Run | Debug
3      public static void main(String[] args) {
4          for (int i = 0; i < 5; i++) { // Loop for rows
5              for (int j = 0; j <= i; j++) { // Loop for columns
6                  System.out.print(s:"*");
7              }
8              System.out.println(); // Move to the next line after each row
9          }
10     }
11 }
12
13
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7" & java Pattern_2
*
**
***
****
*****
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>
```

Q6. Write a Java code to print the pattern.

**

*

Code:

```
import java.util.*;

public class Pattern_1 {
    public static void main(String[] args) {
        for (int i = 0; i < 5; i++) { // Loop for rows
            for (int j = 5; j > i; j--) { // Loop for columns
                System.out.print("*");
            }
            System.out.println(); // Move to the next line after each row
        }
    }
}
```

OUTPUT:

```
J Pattern_1.java > Pattern_1
1  import java.util.*;
2  public class Pattern_1 {
3      public static void main(String[] args) {
4          for (int i = 0; i < 5; i++) { // Loop for rows
5              for (int j = 5; j > i; j--) { // Loop for columns
6                  System.out.print(s:"*");
7              }
8              System.out.println(); // Move to the next line after each row
9          }
10     }
11 }
12
13
14
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7" & java Pattern_1
*****
****
***
**
*
```

PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>

END