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Class -SY D

ROLL NO :35

Subject : Programming with Java

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1. Write a program to print your first\_name, middle\_name, Last\_name, DOB, class, Div, contact\_number, email\_id.

```
2. public class PersonalInformation {
3.     public static void main(String[] args) {
4.         String firstName = "NAVDIP";
5.         String middleName = "ABC";
6.         String lastName = "TALASANIYA";
7.         String dob = "09/04/2004";
8.         String className = "SEM 4";
9.         String div = "D";
10.        String contactNumber = "9687013404";
11.        String emailId = "abc.doe@example.com";
12.
13.        System.out.println("First Name: " + firstName);
14.        System.out.println("Middle Name: " + middleName);
15.        System.out.println("Last Name: " + lastName);
16.        System.out.println("Date of Birth: " + dob);
17.        System.out.println("Class: " + className);
18.        System.out.println("Division: " + div);
19.        System.out.println("Contact Number: " + contactNumber);
20.        System.out.println("Email ID: " + emailId);
21.    }
22.}
23.
24.OUTPUT
25.
26.First Name: NAVDIP
27.Middle Name: ABC
28.Last Name: TALASANIYA
29.Date of Birth: 09/04/2004
30.Class: SEM 4
31.Division: D
32.Contact Number: 9687013404
33.Email ID: abc.doe@example.com
```

2. Write a program to demonstrate all data types.

```
public class DataTypes {
    public static void main(String[] args) {
        int integer = 5;
```

```

float floatNumber = 5.5f;
double doubleNumber = 10.99;
char character = 'A';
String text = "Hello, World!";
boolean isTrue = true;
long longNumber = 100000L;
byte byteValue = 127;
short shortValue = 32767;

System.out.println("Integer: " + integer);
System.out.println("Float: " + floatNumber);
System.out.println("Double: " + doubleNumber);
System.out.println("Char: " + character);
System.out.println("String: " + text);
System.out.println("Boolean: " + isTrue);
System.out.println("Long: " + longNumber);
System.out.println("Byte: " + byteValue);
System.out.println("Short: " + shortValue);
}
}

```

#### OUTPUT

```

Integer: 5
Float: 5.5
Double: 10.99
Char: A
String: Hello, World!
Boolean: true
Long: 100000
Byte: 127
Short: 32767

```

### 3. Write a program to demonstrate all types of literals.

```

class Literals {
    public static void main(String[] args) {
        int intLiteral = 100;
        double doubleLiteral = 5.5;
        char charLiteral = 'A';
        boolean booleanLiteral = true;
        String stringLiteral = "Java";
        float floatLiteral = 3.14f;
        long longLiteral = 10000000000L;

        System.out.println("Integer Literal: " + intLiteral);
        System.out.println("Double Literal: " + doubleLiteral);
        System.out.println("Char Literal: " + charLiteral);
    }
}

```

```

        System.out.println("Boolean Literal: " + booleanLiteral);
        System.out.println("String Literal: " + stringLiteral);
        System.out.println("Float Literal: " + floatLiteral);
        System.out.println("Long Literal: " + longLiteral);
    }
}

```

#### OUTPUT

```

Integer Literal: 100
Double Literal: 5.5
Char Literal: A
Boolean Literal: true
String Literal: Java
Float Literal: 3.14
Long Literal: 10000000000

```

#### 4. Write a program to calculate area of circle.

```

import java.util.Scanner;

class AreaOfCircle {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the radius of the circle: ");
        double radius = sc.nextDouble();
        double area = Math.PI * radius * radius;
        System.out.println("Area of the circle: " + area);
    }
}

```

#### OUTPUT

```

Enter the radius of the circle: 10
Area of the circle: 314.1592653589793

```

#### 5. Write a program to perform all arithmetic operations. (+, -, \*, /, %)

```

import java.util.Scanner;

public class ArithmeticOperations {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the first number: ");
        double num1 = sc.nextDouble();
        System.out.print("Enter the second number: ");
        double num2 = sc.nextDouble();
    }
}

```

```

        System.out.println("Addition: " + (num1 + num2));
        System.out.println("Subtraction: " + (num1 - num2));
        System.out.println("Multiplication: " + (num1 * num2));
        System.out.println("Division: " + (num1 / num2));
        System.out.println("Modulus: " + (num1 % num2));
    }
}

```

#### OUTPUT

```

Enter the first number: 10
Enter the second number: 10
Addition: 20.0
Subtraction: 0.0
Multiplication: 100.0
Division: 1.0
Modulus: 0.0

```

#### 6. Write a program to calculate area of triangle.

```

import java.util.Scanner;

public class AreaOfTriangle {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the base of the triangle: ");
        double base = sc.nextDouble();
        System.out.print("Enter the height of the triangle: ");
        double height = sc.nextDouble();
        double area = 0.5 * base * height;
        System.out.println("Area of the triangle: " + area);
    }
}

```

#### OUTPUT

```

Enter the base of the triangle: 10
Enter the height of the triangle: 10
Area of the triangle: 50.0

```

#### 7. Write a program to perform following arithmetic expression. a. $10 \times 10 / 5 + 3 - 1 \times 4 / 2$

```

public class ArithmeticExpression
{
    public static void main(String[] args)
    {
        int result = 10 * 10 / 5 + 3 - 1 * 4 / 2;
    }
}

```

```

        System.out.println("Result of the expression: " + result);
    }
}

```

OUTPUT

Result of the expression: 21

**8. Write a program to check whether the number is positive or negative or zero.**

```

import java.util.Scanner;

public class CheckPositiveNegativeZero {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();

        if (num > 0) {
            System.out.println("The number is positive.");
        } else if (num < 0) {
            System.out.println("The number is negative.");
        } else {
            System.out.println("The number is zero.");
        }
    }
}

```

OUTPUT

Enter a number: 0  
The number is zero.

**9. Write a program that takes a number (1-7) and prints the corresponding day of the week using a switch statement.**

```

import java.util.Scanner;

public class DayOfWeek {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number between 1 and 7: ");
        int day = sc.nextInt();

        switch (day) {
            case 1:
                System.out.println("Sunday");

```

```

        break;
    case 2:
        System.out.println("Monday");
        break;
    case 3:
        System.out.println("Tuesday");
        break;
    case 4:
        System.out.println("Wednesday");
        break;
    case 5:
        System.out.println("Thursday");
        break;
    case 6:
        System.out.println("Friday");
        break;
    case 7:
        System.out.println("Saturday");
        break;
    default:
        System.out.println("Invalid input. Please enter a number
between 1 and 7.");
    }
}
}

```

#### OUTPUT

```

Enter a number between 1 and 7: 1
Sunday

```

#### 10. Write a program to print 1 to 100 number using do...while loop.

```

public class PrintNumbers {
    public static void main(String[] args) {
        int i = 1;
        do {
            System.out.println(i);
            i++;
        } while (i <= 100);
    }
}

```

#### OUTPUT

```

1
2

```

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```
99
100
```

**11. Write a program to print following pattern.**

```
public class NumberPattern {
    public static void main(String[] args)
    {
        for (int i = 1; i <= 5; i++)
        {
            for (int j = 1; j <= i; j++)
            {
                System.out.print(j);
            }
            System.out.println();
        }
    }
}
```

/\*OUTPUT

```
1
12
123
1234
12345*/
```

```
public class AlphabetPattern
{
    public static void main(String[] args)
    {
        for (int i = 0; i < 5; i++)
        {
            char ch = (char) ('A' + i);
            for (int j = 0; j <= i; j++)
            {
                System.out.print(ch);
            }
            System.out.println();
        }
    }
}
```

/\*OUTPUT

```
A
BB
```

```
CCC
DDD
EEEE*/
```

```
public class AlphabetPattern
{
    public static void main(String[] args)
    {
        int rows = 5;
        for (int i = 1; i <= rows; i++)
        {
            for (char ch = 'A'; ch < 'A' + i; ch++)
            {
                System.out.print(ch);
            }
            System.out.println("A");
        }
    }
}
```