School of Computer Science Engineering and Technology

Course- BTech   Type- Core
Course Code- **CSET109**   Course Name- **Object Oriented Programming Using Java**
Year- First   Semester- Even Batch- BTech 2ⁿᵈ Semester

Tutorial-1

Tutorial No.	Name	CO1	CO2	CO3
1	**Basics**	✓	--	--

Objective: The main objective of this tutorial is to learn about the basics of Java language.

1.1 What will be the Output of the below code:

```
public class A {
    public static void main(String[] args)
    {
        System.out.println("j" + "a" + "v" + "a");
    }
}
```

1.2 What will be the Output of the below code:

```
public class A {
    public static void main(String[] args)
    {
        int $_ = 5;
    }
}
```

1.3. What will be the output of the following program?

```
public class Test {
public static void main(String[] args)
{
  int x = 2, y = 5;

  int exp1 = (x * y / x);
  int exp2 = (x * (y / x));

  System.out.println(exp1);
  System.out.println(exp2);
 }
}
```

1.4. What is the result of the following code?

```
public class Test {
public static void main(String[] args)
{
  double exp1 = (3.0 * 2 / 4);
  int exp2 = (3 * -2 % 4);

  System.out.println(exp1);
  System.out.println(exp2);
  }
}
```

1.5 What is the output of following code?

```
public class Test {
public static void main(String[] args)
{
  int x = 9, y = 12, z = 3;

  int exp1 = x - y/3 + z * 2 - 1;
  int exp2 = (x - y)/3 + ((z * 2) - 1);

  System.out.println(exp1);
  System.out.println(exp2);
  }
}
```

1.6 Is the arithmetic expression valid? If yes, what is the output of the following expression?
```
public class Test {
public static void main(String[] args)
{
  int x = 9, y = 12;
  int a = 2, b = 4, c = 6;

  int exp = (3 + 4 * x)/5 - 10 * (y - 5) * (a + b + c)/x + 9 * (4/x + (9 + x)/y);

  System.out.println(exp);
  }
}
```

1.7 What would be the result of the following arithmetic expression?

```
public class Test {
public static void main(String[] args)
{
  int x = 9, y = 12;
  int a = 2, b = 4, c = 6;
```

```
  int exp = 4/3 * (x + 34) + 9 * (a + b * c) + (3 + y * (2 + a)) / (a + b*y);

  System.out.println(exp);
  }
}
```

1.8 What will be the output of the following program?

```
public class Test {
public static void main(String[] args)
{
  int x = 9, y = 12;
  int a = 2, b = 4;

  boolean exp = 4/3 * (x + 34) < 9 * (3 + y * (2 + a)) / (a + b*y);
  System.out.println(exp);
  }
}
```