School of Computer Science Engineering and Technology

Course- BTech
Course Code- **CSET109**
Year- First

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

Tutorial-2

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

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

2.1 Predict the output of the program:

```
public class prg {
   public static void main(String[] args) {
      char a=0x41;
      char b=0x42;

      System.out.print(a+"" + b+"");
      System.out.print("-");
      System.out.print(a+b);
   }
}
```

2.2 Compile and run the below code? Mention the reason?

```
package com.softwaretestingo.java.wrapperclasses;
public class WrapDemo
{
        public static void main(String[] args)
        {
                int i1=10;
                System.out.println("\t"+i1);
                Integer i2=new Integer(10);
                System.out.print("\t" +i2);
                if(i1==i2)
                {
                        System.out.print("\t i1 and i2 are same");
                }
                else
                {
                        System.out.print("\t i1 and i2 are not same");
                }
        }
}
```

2.3. Consider the following code and guess the output.

```
public class Test
{
public static void main(String args[])
{
int i=20+ +9- -12+ +4- -13+ +19;
System.out.println(i);
}
}
```

2.4. Find out the statements with incorrect code?

```
public class Test {
    1. public void main(String[] args)
    2. {
    3. int a=10;
    4. string s=”World”;
    5. system.out.println(“Hello”+s);
    6. System.out.println(x);
    7. }
    8. }
```

2.5 What will be the output of the program?

```
package com.softwaretestingo.wrapperclasses;
public class WrappingUnwrapping
{
        public static void main(String[] args)
        {
                byte grade = 2;
                int marks = 50;
                float price = 8.6f;
                double rate = 50.5;
                Byte g1 = new Byte(grade); // wrapping
                Integer m1 = new Integer(marks);
                Float f1 = new Float(price);
                Double r1 = new Double(rate);
                System.out.println("Values of Wrapper objects (printing as objects)");
                System.out.println("Byte object g1: " + g1);
                System.out.println("Integer object m1: " + m1);
                System.out.println("Float object f1: " + f1);
                System.out.println("Double object r1: " + r1);
        }
}
```

2.6 What line in this code snippet will give compilation error?

```
double d1 = 5f; // s1
double d2 = 5.0; // s2
float f1 = 5f; // s3
float f2 = 5.0; // s4
```

2.7 What will be the output of the program?

```
class SSBool
{
   public static void main(String [] args)
   {
      boolean b1 = true;
      boolean b2 = false;
      boolean b3 = true;
      if ( b1 & b2 | b2 & b3 | b2 ) /* Line 8 */
         System.out.print("ok ");
      if ( b1 & b2 | b2 & b3 | b2 | b1 ) /*Line 10*/
         System.out.println("dokey");
   }
}
```

2.8 What will be the output of the program?

```
class Test
{
   public static void main(String [] args)
   {
      int x= 0;
      int y= 0;
      for (int z = 0; z < 5; z++)
      {
         if (( ++x > 2 ) && (++y > 2))
         {
            x++;
         }
      }
      System.out.println(x + " " + y);
   }
}
```

2.9 Discuss the output of the following code snippet?

```
public class BoolTest
{
   public static void main(String [] args)
   {
      Boolean b1 = "false";
      boolean b2;
```

```
        b2 = b1
        if (!b2)
        {
           b2 = true;
           System.out.print("x ");
        }
        if (b1 & b2) /* Line 13 */
        {
           System.out.print("y ");
        }
        System.out.println("z");
    }
}
```

2.10 What will be the output of the following code and why?

```
switch(x)
{
case x>70:
System.out.println("True");
break;
case 65<x<=70:
System.out.println("False");
break;
}
```