Course-BTech
Course Code- CSET
Year- First

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

Tutorial-6

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

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

```
8.1 Identify error in the below code:
class Base extends Exception {}
class Derived extends Base {}
public class Main {
public static void main(String args[]) {
try {
       throw new Derived();
       catch(Base b) {
       System.out.println("Caught base class exception");
       catch(Derived d) {
       System.out.println("Caught derived class exception");
}
8.2 What will be the Output of the below code:
class Test
       public static void main (String[] args)
               try
               {
                      int a = 0;
                      System.out.println ("a = " + a);
                      int b = 20 / a;
                      System.out.println ("b = " + b);
               }
               catch(ArithmeticException e)
               {
                      System.out.println ("Divide by zero error");
               }
```

```
finally
               {
                      System.out.println ("inside the finally block");
               }
       }
}
8.3. What will be the output of the following program?
class Test
       public static void main(String[] args)
               try
                      int a[] = \{1, 2, 3, 4\};
                      for (int i = 1; i \le 4; i++)
                              System.out.println ([a["+i+"]="+a[i]+"\n");
               }
               catch (Exception e)
                      System.out.println ("error = " + e);
               }
               catch (ArrayIndexOutOfBoundsException e)
               {
                      System.out.println ("ArrayIndexOutOfBoundsException");
               }
       }
}
8.4. What is the result of the following code?
class Test
       String str = "a";
       void A()
               try
               {
                      str +="b";
                      B();
               catch (Exception e)
                      str += "c";
```

```
}
       }
       void B() throws Exception
               try
                      str += "d";
                      C();
               catch(Exception e)
                      throw new Exception();
               finally
                      str += "e";
               str += "f";
       }
       void C() throws Exception
               throw new Exception();
       void display()
               System.out.println(str);
       public static void main(String[] args)
               Test object = new Test();
               object.A();
               object.display();
       }
}
8.5 What is the output of following code?
public class Test
       public static void main(String[] args)
               try
```

```
System.out.printf("1");
                      int sum = 9/0;
                      System.out.printf("2");
               }
              catch(ArithmeticException e)
                      System.out.printf("3");
               }
              catch(Exception e)
                      System.out.printf("4");
              finally
                      System.out.printf("5");
       }
}
8.6 What will be the output of following code?
public class Test
       private void m1()
              m2();
              System.out.printf("1");
       private void m2()
              m3();
              System.out.printf("2");
       private void m3()
              System.out.printf("3");
              try
                      int sum = 4/0;
                      System.out.printf("4");
              catch(ArithmeticException e)
               {
                      System.out.printf("5");
               }
              System.out.printf("7");
       public static void main(String[] args)
```

```
Test obj = new Test();
               obj.m1();
       }
}
8.7 What would be the result of the following code?
public class Test
       public static void main(String[] args)
               try
               {
                      System.out.printf("1");
                      int data = 5 / 0;
               catch(ArithmeticException e)
                       System.out.printf("2");
                      System.exit(0);
               finally
                      System.out.printf("3");
               System.out.printf("4");
       }
}
8.8 What will be the output of the following program?
public class Test
       private int data = 5;
       public int getData()
               return this.data;
       public int getData(int value)
               return (data+1);
       public int getData(int... value)
               return (data+2);
       public static void main(String[] args)
```

```
Test temp = new Test();
              System.out.println(temp.getData(7, 8, 12));
       }
}
8.9 What will be the Output of the below code:
public class Base
       private int multiplier(int data)
              return data*5;
}
class Derived extends Base
       private static int data;
       public Derived()
              data = 25;
       public static void main(String[] args)
              Base temp = new Derived();
              System.out.println(temp.multiplier(data));
       }
}
8.10 What will be the Output of the below code:
package doubt;
import java.io.*;
class SuperClass {
void method()
System.out.println("SuperClass");
class SubClass extends SuperClass {
void method() throws ArithmeticException
System.out.println("SubClass");
public class Main{
public static void main(String args[])
SuperClass s = new SubClass();
s.method();
}
}
```