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.

```
6.1 What will be the Output of the below code:
class ObjectPassDemo {
       int a, b;
       ObjectPassDemo(int i, int j)
              a = i;
              b = j;
       boolean equalTo(ObjectPassDemo o)
              return (o.a == a && o.b == b);
public class Test {
       public static void main(String args∏)
              ObjectPassDemo ob1 = new ObjectPassDemo(100, 22);
              ObjectPassDemo ob2 = new ObjectPassDemo(100, 22);
              ObjectPassDemo ob3 = new ObjectPassDemo(-1, -1);
              System.out.println("ob1 == ob2: "+ ob1.equalTo(ob2));
              System.out.println("ob1 == ob3: "+ ob1.equalTo(ob3));
       }
6.2 What will be the Output of the below code:
class Test {
       int[] getSumAndSub(int a, int b)
              int[] ans = new int[2];
              ans[0] = a + b;
              ans[1] = a - b;
       return ans;
       public static void main(String[] args)
```

```
Test t=new Test();
       int[] ans = t.getSumAndSub(100, 50);
               System.out.println("Sum = " + ans[0]);
               System.out.println("Sub = " + ans[1]);
       }
}
6.3 What will be the output of the following program?
class Test {
       static int ans[];
       Test(){
       this(6,4);
       Test(int a, int b)
               ans = new int[2];
               ans[0] = a + b;
               ans[1] = a - b;
       public static void main(String[] args)
               Test t=new Test();
               System.out.println("Add= " + ans[0]);
               System.out.println("Sub = " + ans[1]);
       }
}
6.4 What is the result of the following code?
class Data {
int data1;
int data2;
class SetData {
void setData(Data da,int d1,int d2)
da.data1 = d1;
da.data2 = d2;
void getData(Data da)
System.out.println("data1 : "+da.data1);
System.out.println("data2 : "+da.data2);
public class New {
public static void main(String[] args) {
Data da = new Data();
SetData sd = new SetData();
```

```
sd.setData(da,50,100);
sd.getData(da);
6.5 What is the output of following code?
class ObjectReturnDemo {
       int a;
       ObjectReturnDemo(int i) { a = i; }
       ObjectReturnDemo incrByTen()
       ObjectReturnDemo temp = new ObjectReturnDemo(a + 10);
               return temp;
public class Test {
public static void main(String args[])
               ObjectReturnDemo ob1 = new ObjectReturnDemo(2);
               ObjectReturnDemo ob2;
               ob2 = ob1.incrByTen();
               System.out.println("ob1.a: " + ob1.a);
               System.out.println("ob2.a: " + ob2.a);
6.6 Which of the following declarations are invalid?
import java.util.*;
public class New {
public void examplemethod(Scanner sc)
System.out.println("What is your name? ");
String name = sc.next();
System.out.println("Your name is " + name + "!");
public static void main(String args[])
Scanner sc = new Scanner(System.in);
New ob = new New();
ob.examplemethod(sc);
6.7 What would be the result of the following code?
public class Example {
 Example(int a, int b){
  System.out.println(multiply(a,b));
       public static int multiply(int a, int b)
               return a * b;
```

```
}
        public static void main(String[] args)
                int x = 2;
                int y = 5;
                new Example(2,5);
}
6.8 What will be the output of the following program?
package test;
class Add
int a;
int b;
Add(int x,int y)
a=x;
b=y;
void sum(Add A1)
int sum1=A1.a+A1.b;
System.out.println("Sum of a and b:"+sum1);
public class New
public static void main(String arg[])
Add A=\text{new Add}(5,8);
A.sum(A);
}
6.9 What will be the Output of the below code:
import java.util.Arrays;
class New {
String arr[];
New(String arr[]){
this.arr=arr;
void show(){
String s = Arrays.toString(arr);
System.out.println(s);
public static void main(String[] args)
String arr[]={ "The", "quick", "brown", "fox", "jumps", "over", "the", "lazy", "dog" };
New t1=new New(arr);
t1.show();
```

```
6.10 What will be the Output of the below code: package test; class Add {
  int a;
  Add(String a) {
  this.a=a.length();
  this.sum(this);
  }
  void sum(Add A1) {
  int len=A1.a;
  System.out.println("String length is:"+len);
  }
  public class New {
  public static void main(String arg[]) {
   Add A=new Add("bennett");
  }
}
```