**Session 3**

**OBJECTIVES:** Using Objects as Parameters, Returning Objects

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| /\*Using Object as parameters\*/  class Test {  int a, b;  Test(int i, int j) {  a = i;  b = j; }  boolean equalTo(Test o) {  return (a == o.a && b == o.b); }  }  class PassOb{  public static void main(String args[]){  Test ob1 = new Test(100, 22);  Test ob2 = new Test(100, 22);  Test ob3 = new Test(-1, -1);  System.out.println("ob1 == ob2: " + ob1.equalTo(ob2));  System.out.println("ob1 == ob3: " + ob1.equalTo(ob3)); }  } |

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| /\*Returning Object\*/  class ObjectReturnDemo {  int a;  int b;  ObjectReturnDemo(int i, int j) {  a = i;  b = j;  }  ObjectReturnDemo incrByTen() {  ObjectReturnDemo temp = new ObjectReturnDemo(a+10,b+10);  return temp;  }  }  class Test2{  public static void main(String args[]) {  ObjectReturnDemo ob1 = new ObjectReturnDemo(2,3);  ObjectReturnDemo ob2;  ob2 = ob1.incrByTen();  System.out.println("ob1.a: " + ob1.a+" "+ob1.b);  System.out.println("ob2.a: " + ob2.a +" "+ob2.b);  }  } |

**Exercises:**

1. Write a class A which has two member instances: a(int) and b(int). Write another class B which has a method sum which takes two arguments of type A and returns a objects of type A where the returned object’s a is equal to the sum of two arguments’ a and b is equal to the sum of two arguments’ b.
2. Complete the following code:

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| class A  {  int a;  A(int a) //set the value of instance according to the argument  {  }  }  class B  {  A square\_a(A ob) //square the value of the object’s instance  {    }  void show(A ob) //Print the object’s instance  {    }  }  public class Test2 {  public static void main(String[] args) //Create object of the class and test the methods  {    }  } |