***Programs of Object Passing:-***

***1.Directly pass Object name as Parameter***:

Program 1:

|  |
| --- |
| class s  {  int i,j;    s(int x)  {  i=x;  }    void fact(s a1)  {  int fact=1;  while(i!=0)  {  fact=fact\*i;  i--;  }  System.out.println(fact);  }  }  public class Objectpass  {  public static void main(String args[])  {  s a1=new s(4);  a1.fact(a1);  }  } |

Output:

|  |
| --- |
| run:  24 |

***2. By passing instance variable one by one:***

Program 2:

|  |
| --- |
| class Cuboid  {  int length,breadth,height;    void Volume()  {  int V=length\*breadth\*height;  System.out.println("Volume of cuboid ="+V);  }  }  public class Instance  {  public static void main(String args[])  {  Cuboid a1=new Cuboid();  Cuboid a2=new Cuboid();  a1.length=2;  a1.breadth=3;  a1.height=5;  a1.Volume();    }  } |

Output:

|  |
| --- |
| run:  Volume of cuboid =30 |

***3. Returning Object from methods:***

Program 3:

|  |
| --- |
| class Circle  {  int r;  double area;    Circle(int x,double area)  {  r=x;  this.area=3.14\*x\*x;  }    Circle Area()  {  Circle c=new Circle(14,area);  return c;  }    }  public class ReturnObj  {  public static void main(String args[])  {  Circle a1=new Circle(7,3.14\*7\*7);  Circle a2;  a2=a1.Area();  System.out.println("when a1.r="+a1.r+" a1.area="+a1.area);  System.out.println("when a2.r="+a2.r+" a2.area="+a2.area);    }  } |

Output:

|  |
| --- |
| run:  when a1.r=7 a1.area=153.86  when a2.r=14 a2.area=615.44  BUILD SUCCESSFUL (total time: 1 second) |

Program:

|  |
| --- |
| class A  {  int a,b;  A(int i,int j){  a=i;  b=j;  }  A display()  {  A d=new A(5,7);  return d;  }    }  class ReturnObject  {  public static void main(String args[])  {  A a1=new A(2,3);  A a2;  a2=a1.display();  System.out.println(a1.a+" "+a1.b);  System.out.println(a2.a+" "+a2.b);    }  } |

Output:

|  |
| --- |
| run:  2 3  5 7  BUILD SUCCESSFUL (total time: 1 second) |