

## JAVA BASIC PROGRAMS

1.

```
class Employee{
    static int id;
    static void test(){
        System.out.println(" X : "+id);
    }
}
class Demo2{
    public static void main(String aa[]){
        Employee.id=2000;
        Employee.test();
    }
}
```

2.

```
class Test{

    int x;
    void add(){
        System.out.println(" Class Test "+x);
    }
}

class Demo3{
    public static void main(String aa[]){

        Test t1 = new Test();

        t1.x=100;
        t1.add();
    }
}
```

```
t1.add();
```

```
t1.add();
```

```
new Test().x=500;
```

```
new Test().add();
```

```
new Test().add();
```

```
new Test().add();
```

```
}
```

```
}
```

3.

```
public class TypeCasting {
```

```
    public static void main(String[] args) {
```

```
        int a = 100;
```

```
        char b = (char)a;
```

```
        System.out.println("Int into Char -----> "+b+"\n");
```

```
        double d1 = 100.04;
```

```
        long l1 = (long)d1; //explicit type casting required
```

```
        int i1 = (int)l1; //explicit type casting required
```

```
        System.out.println("Double value "+d1);
```

```
        System.out.println("Long value "+l1);
```

```
        System.out.println("Int value "+i1);
```

```
        System.out.println("");
```

```
        int i2 = 100;
```

```
long l2 = (long)i2;  
float f2 = (float)l2;
```

```
System.out.println("Int value "+i2);  
System.out.println("Long value "+l2);  
System.out.println("Float value "+f2);  
}
```

```
}
```

4.

```
class A{  
    int x;  
    void add(){  
        System.out.println(" X : "+x);  
    }  
}  
class B extends A{  
    int y;  
    void sum(){  
        System.out.println(" X : "+x+" Y : "+y);  
    }  
}
```

```
class Demo4{  
    public static void main(String aa[]){  
  
        B s1 = new B();  
  
        s1.x=100;  
        s1.add();  
  
        s1.y=200;  
        s1.sum();  
    }  
}
```

```
System.out.println(" ----- ");
```

```
A s2 = new B();
```

```
s2.x=300;
```

```
s2.add();
```

```
//s2.sum();
```

```
System.out.println(" ----- ");
```

```
B s3 = (B)s2;
```

```
s3.add();
```

```
s3.y=400;
```

```
s3.sum();
```

```
}
```

```
}
```

5.

```
class Demo{
```

```
    public static void main(String ss[]){
```

```
        System.out.println(" Welcome to Java! ");
```

```
    }
```

```
}
```

// Instance Variable and Instance Method

```
class Student{
```

```
    int id;
```

```
    void display(){
```

```
        System.out.println(" Result : "+id);
```

```
    }
```

```
}
```

```
class Demo1{  
    public static void main(String aa[]){  
  
        //Student.id=900;  
  
        Student s1 = new Student();  
  
        s1.id=100;  
        s1.display();  
  
        System.out.println(" ----- ");  
  
        Student s2 = new Student();  
  
        s2.id=200;  
        s2.display();  
  
    }  
  
}
```

