JAVA BASIC PROGRAMS

```
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();
```

```
	}
}
```

```
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();
	}
}
```

```
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();
        }
}
```

```
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);
   }
}
```

```
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();



    }
}
```