

First Stage

Practical Programming

First Lecture

```
package programming;
import java.util.Scanner;

public class Programming {

    public static void main(String[] args) {

        //data types:
        int y=7;
        double z=4.5;
        char a='a';
        String A="First Stage";

        //Print Statement
        System.out.println("y :" +y);
        System.out.println("z: " +z);
        System.out.println("a :" + a + "  A :" +A);

        //Enter from Keyboard
        Scanner k = new Scanner(System.in);
        // Enter Integer number
        int x;
        System.out.print("Enter Integer number: ");
        x = k.nextInt();
        System.out.println("x: " + x);
        //convert from double to integer
        int c=(int)z;
        System.out.println(c);
        //Enter double number
        System.out.println("Enter double number: ");
        double w = k.nextDouble();
        System.out.println(w);
```

```
//Enter String
System.out.print("Enter your name: ");
String name = k.nextLine();
System.out.println("Hello " + name);

//Arathmetic Operation
int sum=4+5;
System.out.println("sum="+sum);
int sub= 8-3;
System.out.println("sub="+sub);
int mul= 8*3;
System.out.println("mul="+mul);
int div= 8/3;
System.out.println("div="+div);
int mod= 8%3;
System.out.println("mod="+mod);

//Incrementel and decrease
int i=0;
System.out.println("i="+i);
i++;
System.out.println("i="+i);
++i;
System.out.println("i="+i);
System.out.println("i="+i);

}

}
```

Second Lecture

```
package programming;
public class SecondLecture {
    public static void main(String[] args) {

        //Write an program to read two numbers, then find the summation between them?
        int x=9;
        int y=8;
        int sum;
        sum=x+y;
        System.out.println("the sum is: "+sum);

        //Write an program to read two numbers, then find the largest number between them?
        int a=7;
        int b=5;
        if (a>b)
            System.out.println("a is larger than b ");
        else
            System.out.println("b is larger than a");

        //Write an program to read number, then Check it if positive or Negative?
        int m=7;
        if (m>0)
            System.out.println("m is positive ");
        else
            System.out.println("m is negative");

        //Write an program to calculate the value of Y from the following equation?
        // Y = X2 + 6X + 9
        int Y;
        Y=(x*x)+(6*x)+9;
        System.out.println("Y="+Y);
```

```
//Write an algorithm to calculate the area of Triangle?
```

```
int B=3;  
int H=4;  
double A=(0.5)*B*H;  
System.out.println("the area is:"+A);
```

```
//Write an algorithm to check whether given number odd number or even?
```

```
int N=8;  
if (N % 2==0)  
    System.out.println("N is even");  
else  
    System.out.println("N is odd");
```

H.W/

1- Write an Java Program to calculate the area of Circle?

2- Write an Java program to read four integer numbers, then find the average between them?

3- Write an Java program to read temperature and convert it from Fahrenheit (F) to Celsius (C)?