

CMPE 101 - Intermediate Programming

Worksheet(Week-02A)

Part I

In this part you will learn primitive data types and variables. Please execute all expression line-by-line inside the **main** method and try to understand out puts. If you can't compile or execute, then try to fix out problems, then execute again!.

```
int a;
a = 12;
int b=23;
c= a+b; // what is the out put of this line?
a = a + b; // a = ?
int k;
3=k; // k=?
double s= 3.4;
double m;
m=2.3+S; // m=?
int t=3;
int u=4;
int p= t/u; // p=?
boolean myFlag;
System.out.println(myFlag); //what is out put?
myFlag= 45; // myFlag=?
myFlag= T; //myFlag=?
myFlag= False; // what is the proglem of this expression.
char s= "b"; // s=?
char y='q'; // y=?
char z='ab'; // z=?
 int r=5;
 r=R+1; // r=?
 int h1=r++; // h=?
 int h2=++r; // h=? explain whay we have differen h1 and h2
 int x1=r--;
 int x2=--r;
```



```
int x=x-1; // explian x1,x2 and x3
int a6=7;
int a7= 43;
int a8= a7/a6; // a8=?
int a9= a7 % a6; // a9=? explain a8 and a9
```



Part II

In this part, your asked to fix out problems if there is a problem. You may test this method inside the **main** to evaluate your comments. See the lecture examples.

```
public int add(int a, int b, int c){
    int s=0;
    s= a+b;
    s= s+c;
}

public void multiply(int a, int b) {
    return a*b
}

public short subtractNumbers (shor a, btye, float k) {
    return a+b-k;
}

pulic doulbe mixData(byte a, short b, int c, float d, long e){
    return a+b+c+d+e;
}
```



Part III

Please write following function with a valid Java Method. suppose all variables are integers and the function returns a double data as a result.

$$f(x, y, z) = x^4 + x + 3y^3 - 100x^2 + z$$

$$f(x, y, z) = \frac{3x + 4y}{10z + 10x}$$