

CMPE 101 - Intermediate Programming

Worksheet(Week-02D)

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!.

```
char x;  
x='12'; // x=?
```

```
int t,a,b=32;  
b=a*23;  
t=t+a; // t=?  
double c, d, e;  
d=2.3;
```

```
e= d+a; // e=?;  
a= d+b; // a=?
```

```
int p;  
30=p; // p=?  
double j;  
j= 3.4;  
double m;  
m=2.3+J; // m=?
```

```
int a5= 3;  
int u=4;  
int p2= a/u; // p=?
```

```
boolean istanbul;  
System.out.println(istanbul); //what is the output?  
istanbul= 45; // istanbul=?  
istanbul= T; //istanbul=?  
istanbul= False; // what is the proglem of this expression.
```

```
char d= "a"; // s=?  
char v='h'; // y=?
```

```
char c='ab'; // z=?

int n=5;
r=n-1; // r=?
int h1=n--; // h=?
int h2=--n; // h=? explain whay we have differen h1 and h2
int h3= n++;
int h4=--n ; //explain h3,h4 and h5
int h5= n+1;

int d6=7;
int d7= 43;
int d8= d7/td; // d8=?
int d9= d7 % d6; // d9=? explain d8 and d9
```

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 long add(byte x, short y, int z){

    int s=0;
    s= x+y;
    s= s+z;
}

public void multiply(long m, int n, float t) {

    return m*n*t
}

public int subtractNumbers (long q, btye p, float n ) {

    return q+p-n;
}
```

```
public double mixData(byte e, short d, int f, float s, long m){  
    return e+d+f+s+m;  
}
```

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.

$$f(x, y) = 3x^4 + 4y^5$$

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