Laboratory Exercises 3
Java Basics

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Section: BSCPE 2GF   Score:_____

1. Give good variable names for identifiers to store

   a. A variable to hold the speed of an automobile

autoSpeed

   b. A variable to hold the pay rate for an hourly employee

empPayHourRate

   c. A variable to hold the highest score in an exam

examHighScore

2. Give the declaration for two variables called feet and inches. Both variables are of type int and both are to be initialized to zero in the declaration.

int feet=0, inches=0;

3. Give the declaration for two variables called count and distance. Count is of type int and is initialized to zero. Distance is of type double and is initialized to 1.5.

int count=0, double distance=1.5;

4. Give a Java statement that will change the value of the variable sum to the sum of the values in the variables n1 and n2. The variables are all of type int.

> int sum=n1+n2;

5. Write an assignment statements for the following:

a. $D = \left(\frac{A+B}{2}\right) x\ M$

> D=((A+B)/2)*M

b. $A = 53\ x\ \left(\frac{M^2 + N^2}{23\ x\ P}\right)$

> A=53*((M^2+N^2)/(23*P))

c. $B = 93\left(\frac{M+N}{A} + D^2\right)$

> B=93((M+N)/A+D^2)

6. What will be printed on the terminal when each of the following programs is executed?

	Output:
int a; double b; a=4;	4times9.3equals37.2

b=9.3; *System.out.print(a+" times "+b+" equals "+a*b);*	
int x=5, y=4; *System.out.print(x);* *System.out.print(x+y);* *System.out.print("x=" + x);* *System.out.print("y=" + y);* *System.out.print("x+y=" + (x+y));* *System.out.print( );*	Output: 5 9 x=5 y=4 x+y=9
int w, x, y, z; *w=1;* *x=2;* *y=w;* *z=x+y;* *w=2*y+3*z;* *System.out.print(w + " " + x + " " + y + " " + z);*	Output: 11213

For No. 6:

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```java
public class MyClass {
    public static void main(String args[]) {
        int x=5, y=4;

        System.out.println(x);
        System.out.println(x+y);
        System.out.println("x="+x);
        System.out.println("y="+y);
        System.out.println("x+y="+(x+y));
        System.out.println();
    }
}
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Interactive

Stdin Inputs

CommandLine Arguments

▶ Execute

Result
CPU Time: 0.11 sec(s), Memory: 33508 kilobyte(s)   compiled and executed in 0.752 sec(s)

```
5
9
x=5
y=4
x+y=9
```

Note:
1. For file operations - upload files using upload button. Files will be upload to /uploads folder. You can read those files in program from /uploads folder. To write a file from your program, write files to '/myfiles' folder. Please note the uploaded files stored in the server only for the current session.

```java
public class MyClass {
    public static void main(String args[]) {
        int x=5, y=4;

        System.out.println(x);
        System.out.println(x+y);
        System.out.println("x="+x);
        System.out.println("y="+y);
        System.out.println("x+y="+(x+y));
```

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