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Subject Code:	JAVA	Subject Name	JAVA	

# Lab Assignment – 1

Q1	Explain Compilation flow Java Program.		
Ans-1			
	Compilation flow of Java Program:		
	First we write a source file, let it be named Simple.java,		
	which is in Java language. This language isn't understood		
	by Machine. So, we use a translator called compiler. This		
	compiler converts source file into byte code which is named as Simple.class		
	Then JVM(Java virtual Machine) which is an interpreter		
	converts byte code into machine understandable		
	language and it is executed and output is displayed.		
	Basically, the whole process is:		
	Class file → Class loader → Bytecode verified →		
	Interpreter → Runtime → Hardware.		
Q2	Explain types of Java Variable with proper examples.		
Ans-2			
	Types of Variables in Java are:		
	Local variables		
	Static variables		
	<ul> <li>Instance variables</li> </ul>		



## **Local variable:**

A variable declared inside the body of the method is called local variable. You can use this variable only within that method and the other methods in the class cannot access this variable.

### **Static variable:**

A variable that is declared as static is called a static variable. It cannot be local. Once a value is assigned to this variable it cannot be changed.

### **Instance variable:**

A variable declared inside the class but outside the body of the method, is called an instance variable. It is not declared as static.



Q3 Write a Java program to display Welcome.

#### Ans-3

### **CODE:**

#### **OUTPUT:**

```
Welcome
...Program finished with exit code 0
Press ENTER to exit console.
```



Q4 Write a Java Program to assign byte, int, long, float, double, char, string value to variables and also display the same value on screen.

### Ans-4 CODE:

#### **OUPTUT:**

```
byte: 100
short: 5000
int: 1000000
long: 10000000000
float: 2.5
double: 4.6253
char: A
String: Hello

...Program finished with exit code 0
Press ENTER to exit console.
```



Q5 Write a Java Program to explain Java Operators – Unary Operator, Arithmetic Operator, Relational Operators, Logical Operators and Ternary Operator.

Ans-5

#### **CODE:**



```
OUTPUT:

3
8
b+c: 30
b-c: 10
b*c: 200
b/c: 2
b*c: 0
true
false
false
true
true
true
true
1
0

...Program finished with exit code 0
Press ENTER to exit console.
```