Lab Assignment
Java output

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Batch - 2

```
[danyyadav@Danys-MacBook-Air java % cd ~/Desktop/java
[danyyadav@Danys-MacBook-Air java % javac arthOperators.java
[danyyadav@Danys-MacBook-Air java % java arthOperators
 Enter the 1st number :
 6
 Enter the 2nd number :
 4
 Arithmetic operations
 Addition : 10
 Subtraction : 2
 Multiplication : 24
 Division : 1
 Reminder : 2
 danyyadav@Danys-MacBook-Air java %
```

Caption

```
[danyyadav@Danys-MacBook-Air java % javac unaryOperators.java
[danyyadav@Danys-MacBook-Air java % java unaryOperators
 Unary Operators Demonstration
 Unary plus (+a): 10
 Unary minus (-a): -10
 Unary minus on b (-b): 20

 Original value of a: 10
 Post-increment (a++): 10
 After post-increment, a = 11
 Pre-increment (++a): 12
 Post-decrement (a--): 12
 After post-decrement, a = 11
 Pre-decrement (--a): 10

 Logical NOT (!flag): false
 danyyadav@Danys-MacBook-Air java %
```

Caption

```
[danyyadav@Danys-MacBook-Air java % cd ~/Desktop/java
[danyyadav@Danys-MacBook-Air java % javac relationalOperators.java
[danyyadav@Danys-MacBook-Air java % java relationalOperators
 Enter the first number: 6
 Enter the second number: 5
 Relational Operations
 6 == 5 : false
 6 != 5 : true
 6 > 5 : true
 6 < 5 : false
 6 >= 5 : true
 6 <= 5 : false
 danyyadav@Danys-MacBook-Air java %
```

Caption

```
danyyadav@Danys-MacBook-Air java % cd ~/Desktop/java
danyyadav@Danys-MacBook-Air java % javac logicalOperators.java
danyyadav@Danys-MacBook-Air java % java logicalOperators
Enter first number: 6
Enter second number: 5
Logical Operators
Condition 1 (a > 0): true
Condition 2 (b > 0): true
cond1 && cond2 : true
cond1 || cond2 : true
!cond1 : false
!cond2 : false
danyyadav@Danys-MacBook-Air java %
```

Caption

```
[danyyadav@Danys-MacBook-Air java % cd ~/Desktop/java
[danyyadav@Danys-MacBook-Air java % javac bitwiseOperators.java
[danyyadav@Danys-MacBook-Air java % java bitwiseOperators
 Enter first number: 7
 Enter second number: 5
 Bitwise Operations
 7 & 5 : 5
 7 | 5 : 7
 7 ^ 5 : 2
 ~7 : -8
 Shift Operations
 7 << 1 : 14
 7 >> 1 : 3
 7 >>> 1 : 3
 danyyadav@Danys-MacBook-Air java %
```

Caption