JAVA

Class 5

Agenda

Logical Operators
Logical Operators & Nested if
Switch Case

Operators in Java

Logical Operators

Logical AND Operator (& and &&)

Operand 1	Operand 2	Returned Value
False	False	False
False	True	False
True	False	False
True	True	True

Logical OR Operator (| and ||)

Operand 1	Operand 2	Returned Value
False	False	False
False	True	True
True	False	True
True	True	True

Logical NOT Operator (!)

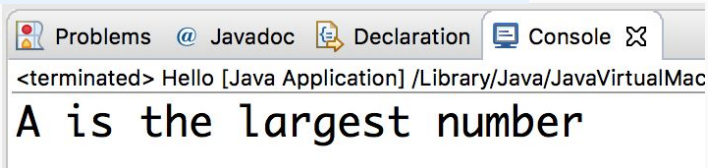| Operand	Returned Value
False	True
True	False

Operators in Java

Logical Operators

&& - AND
|| - OR
! - NOT

```java
int a = 30;
int b = 20;
int c=10;

if((a>b) && (a>c)) {
    System.out.println("A is the largest number");
}
```

Problems @ Javadoc Declaration Console
<terminated> Hello [Java Application] /Library/Java/JavaVirtualMac

A is the largest number

Task

1. Prompt the user to enter person heights in inches. Person should be classified as one of the following:
   - short (under 5 feet)
   - medium(5 to 6 feet)
   - tall (6 feet and over)

2. Write a program that will read three inputs of scores (quiz, mid term, and final scores) and determine the grade based on the following rules:
   - if the average score >=90 =>grade=A
   - if the average score >= 70 and <90 => grade=B
   - if the average score>=50 and <70 =>grade=C
   - if the average score<50 =>grade=F

NOTE: avgScore=(quiz+mid term+final scores)/3

HomeWork

1. Write a program to find largest of three double values using if-else..if provided by a user (numbers must be distinct)

2. Program to find largest number among three numbers using nested if provided by a user (numbers must be distinct)