



JAVA

Class 4

Agenda

Scanner Class in JAVA

Nested if

Logical Operators

Scanner Class

The Scanner class is used to get user input, and it is found in the java.util package.

The Scanner class is used for reading in primitive data types like int, double, float, etc., and objects of type String.

- To read strings, we use nextLine()
- To read numerical values, we use nextInt()
- To read a single character, we use next().charAt(0)

```
Scanner myScanner=new Scanner(System.in);  
System.out.println("Please enter your name");  
String name=myScanner.next();  
System.out.println("Your name is "+name);
```

<terminated> C1NestedIf [Java Application] C:\Program Files\Ji

Please enter your name

John

Your name is John

Task

1. You are a loan specialist and you need to ask user what is the amount of loan is needed. If loan is less than 200,000 then you would lend the money otherwise you would reject the client.
2. You are DMV representative and you need to ask customer their age. If they are 18 and older you will issue a driver licence to them, otherwise you will offer them to get a learners permit.
3. Create a Java program that will ask user to input city and temperature. Your program should convert Fahrenheit into celsius and print "The temperature is the city __ is __"

Nested if condition

A nested if statement is an if-else statement within another if or else block

```
int age=26;

if (age<18) {

    System.out.println("You are teenager, please don't work");
}else {
    System.out.println("You are older than 18");

    if(age<64) {
        System.out.println("you are eligible to work");
    }else {
        System.out.println("enjoy your life");
    }
}
```

Task

1. Create a Java program and store variables to store mortgage rate and mortgage price. First program should check if rate is higher than 4.5 user will not buy a house, otherwise user will consider buying. Once user decides to buy a house, if price of the house is larger than 200000 than user will take a loan, otherwise user will pay cash.
2. Write a program to ask user to enter numbers of worked years and annual salary. If user worked for more or equals to 5 years than user is eligible for the bonus, otherwise he is not. Once user is eligible and salary is larger than 50000 than $\text{bonus} = 5000$, otherwise $\text{bonus} = 3000$.