# Computer Science by AP Tutorial

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*Programming class under Aryan Singh*

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# Class 10

## Bank Menu

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        double balance = 0.0;
        int choice;

        do {
            System.out.println("\n--- Bank Menu ---");
            System.out.println("1. Deposit Money");
            System.out.println("2. Withdraw Money");
            System.out.println("3. View Balance");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");
            choice = sc.nextInt();

            switch (choice) {
                case 1:
                    System.out.print("Enter amount to deposit: ");
                    double deposit = sc.nextDouble();
                    if (deposit > 0) {
                        balance += deposit;
                        System.out.println("Deposited: " + deposit);
                    } else {
                        System.out.println("Invalid amount. Please enter a
positive value.");
                    }
                    break;

                case 2:
                    System.out.print("Enter amount to withdraw: ");
                    double withdraw = sc.nextDouble();
                    if (withdraw > 0) {
                        if (withdraw <= balance) {
                            balance -= withdraw;
                            System.out.println("Withdrawn: " + withdraw);
                        } else {
                            System.out.println("Insufficient balance.");
                        }
                    } else {
                        System.out.println("Invalid amount. Please enter a
positive value.");
                    }
                    break;
```

```java
                case 3:
                    System.out.println("Current Balance: " + balance);
                    break;

                case 4:
                    System.out.println("Thank you for using our service!");
                    break;

                default:
                    System.out.println("Invalid choice. Please try again.");
            }
        } while (choice != 4);

        sc.close();
    }
}
```

In this implementation, the opening balance is 0.

# Class 9

## Calculate someone's age from their year of birth till now

```java
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter year of birth: ");
        int year_of_birth = sc.nextInt();

        int current_year = 2025;
        int age, year_in_focus = year_of_birth;

        while (year_in_focus <= current_year) {
            age = year_in_focus - year_of_birth;

            System.out.println("The person is " + age + " years old in "+year_in_focus);

            // increment the year in focus
            year_in_focus++;
        }
    }
}
```

## Print tables for any given number

```java
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();
        int i = 1; // i is an increment value
        int product = 0;

        while (i <= 10) {
            product = num*i;
            System.out.println(num + "*" + i + "=" + product);
            i++;
        }
```

```
        }
    }
```

# Class 8

## Greatest of two numbers

```python
# python
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))

if num1 > num2:
    print(f"{num1} is greater")
elif num2 > num1:
    print(f"{num2} is greater")
else:
    print("Both numbers are equal")
```

```java
// java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        int num1 = 29;
        int num2 = 10;

        if (num1 > num2) {
            System.out.println(num1 + " is greater");
        }
        else {
            System.out.println(num2 + " is greater");
        }
    }
}
```