Name: **ID:**

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1. What is the output of the following java code: [6]

```java
class Account{
    String name;
    double balance;

    public Account(String name, double balance) {
        this.name = name;
        this.balance = balance;
    }

    void increaseBalance(double amount){
        balance += amount;
    }

    void decreaseBalance(double amount){
        if(amount <= balance){
            balance -= amount;
        }
    }
}

public class Test {
    public static void main(String[] args) {
        Account account1 = new Account("Sharif", 100);
        Account account2 = new Account("Ahmed", 200);
        System.out.println(account1.name + " " + account1.balance);
        System.out.println(account2.name + " " + account2.balance);

        account1.increaseBalance(130);
        account1.decreaseBalance(20);
        System.out.println(account1.balance + " " + account2.balance);

        account2.increaseBalance(500);
        account1.decreaseBalance(30);
        System.out.println(account1.balance + " " + account2.balance);

    }
}
```

Ans:

2. Complete the following table. [4]

Modifier	Package	Subclass	World/Global
Protected			
Default			

3. Briefly discuss about Inheritance in OOP. [4]

4. i. Create a class named **Marks**. Marks class contains four instance variables: [6]
   1) id (String)
   2) quizMark (double)
   3) midMark (double)
   4) finalMark (double)

   ii. Write a parameterized constructor for Marks class which initializes all the instance variables using this keyword.