Enter the base and height of the triangle:
10
5.
The area of the triangle is 25.0
Enter the radius of the circle:
10
The area of the circle is 314.0.

(10) Name: Shashidhar BM
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2/1/2023

Lab program 5.

Develop a Java program which has class Bank account and saving account which extends account

Code.

```java
import java.util.*;

class Account{
        String name;
        int accno;
        String type;
        double balance;
        Account(String name, int accno, string type,
                double balance){
            this.name = name;
            this.accno = accno;
            this.type = type;
            this.balance = balance;
        }
        void deposit(double amount){
            balance += amount;
        }
```

```java
        void withdraw(double amount){
                if((balance-amount)>0){
                        amount -= amount;
                }
                else{
                        System.out.println("Insufficient
                                        balance");
                }
        }

        void display(){
                System.out.println("Name: "+name+"\n"+
                                "Accounts : "+accno+"\n"+
                                " Type : "+ type+"\n"+
                                " balance :"+balance+"\n");
        }
```

3.

```java
class SavingAccount extends Account{
        private static int rate =5;
        SavingAccount (string name, int accno, String
                                type, double balance){
                super(name, accno, type, balance);
        }
        void balanceWithInterest (){
                balance += balance* rate/100;
                System.out.println("balance : "+ balance)
        }
```

3.

```java
class currAcc extend account
{
        private double minBal = 500;
        private double servicecharge = 50;
        currAcc (string name, int accno, double bal)
        {
```

```java
        super (name, accno, "current", balance);
    }
    void checkmin(){
        if (balance < minBal){
            System.out.println ("balance is
            less than min balance service
            charges exposed :"+ service charges);
            balance -= Service Charges;
            System.out.println("balance is"+balance);
        }
    }
}

class Main {
    public static void main (String args[]){
        Scanner s = new Scanner(System.in);
        System.out.println ("Enter the name :");
        String name = s.nextLine();
        System.out.println("Enter the type (current/
                            savings :" );
        String type = s.nextLine();
        System.out.println ("Enter the account
                            number :");
        int accno = s.nextInt();
        System.out.println ("Enter the initial
                            balance ");
        double balance = s.nextDouble();

        int ch;
        double amount1, amount2;
        Account acc =new Account (name,accno,
                                    type, balance);
        SavAccount sa = new SavAccount(
                            name, accno, balance);
```

```java
CurrAccount ca = new CurrAccount(
                    name, accno, balance);

while(true) {
    if(acc.type.equals("savings")){
        System.out.println("\n Menu \n 1 deposit
                        \t 2. withdraw \t
                          3. compute interest \t
                          4. display ");

        System.out.println("\n Enter the choice:");

        ch = s.nextInt();
        switch(ch){
            case 1: System.out.println(" Enter
                        the amount: ");
                    amount1 = s.nextInt();
                    sa.deposit(amount1);
                    break;
            case 2: System.out.println(" Enter
                        the amount: ");
                    amount2 = s.nextInt();
                    sa.withdraw(amount2);
                    break;
            case 3: sa.interest();
                    break;
            case 4: sa.display();
                    break;
            case 5: System.exit(0);

            default: System.out.println("invalid
                        input ");
                    break
}
```

Enter the initial amounts balance:
150

------ Menu ------

1. Deposit   2. withdraw   3. Compute interest for
                                   savings Account

    4. Display Account details.   5. exit

Enter your choice
1
Enter deposit amount:
20

---- Menu ----

1. Deposit   2. withdraw   3. compute interest for
                                   savings Account

    4. Display Account details   5. exit

Enter your choice
2
Enter the withdrawal amount
30.

---- Menu ----

1 deposit   2 withdraw   3. compute interest
                                 for savings Account

    4. Display Account details   5. exit

Enter your choice
3.
Details:
Name : Sharlidhar P M
AccNo : 15386
Type : savings
balance : 140.0

Curr Account Output;

Enter your name!

Shankidhar

Enter the account type (curr or deposit)

currentAccount

Enter the account number

15348.

Enter the initial amount;

150

1. deposit   2. withdraw   3. display Account
                                        details

   4. Exit

Enter the choice:

1

Enter the amount

15000

1. deposit   2. withdraw   3. display account
                                            details

   4. exit.

Enter the choice

2

Enter the amount

14000

1. deposit,   2. withdraw   3. display acc.
                                            details

   4. exit.

Enter the choice

3

Name : Shankidhar B

Acc No : 15348

Type : curr account

Balance : 900

16/1/2024