```java
import java.util.Scanner;
abstract class shape
{
int a,b;
abstract void printArea();
}
class Rectangle extends shape
{
void printArea()
{
 System.out.println("Area of Rectangle="+(a*b));
}
}
class Triangle extends shape
{
void printArea()
{
 System.out.println("Area of Triangle="+(0.5*a*b));
}
}
class Circle extends shape
{
void printArea()
{
 System.out.println("Area of Circle="+(3.142*a*a));
}
}
class Shapemain
{
 public static void main(String args[])
 {
   Scanner sc=new Scanner(System.in);
  Rectangle r=new Rectangle();
  Triangle t=new Triangle();
  Circle c=new Circle();
```

```java
class Triangle extends shape
{
void printArea()
{
 System.out.println("Area of Triangle="+(0.5*a*b));
}
}
class Circle extends shape
{
void printArea()
{
 System.out.println("Area of Circle="+(3.142*a*a));
}
}
class Shapemain
{
 public static void main(String args[])
 {
   Scanner sc=new Scanner(System.in);
  Rectangle r=new Rectangle();
  Triangle t=new Triangle();
  Circle c=new Circle();
  System.out.println("Enter length and breadth:");
  r.a=sc.nextInt();
  r.b=sc.nextInt();
  r.printArea();
  System.out.println("Enter height and base:");
  t.a=sc.nextInt();
  t.b=sc.nextInt();
  t.printArea();
  System.out.println("Enter radius:");
  c.a=sc.nextInt();
  c.printArea();
 }
}
```

```java
import java.util.Scanner;

class account
{

    private String name;
    private long account_number;
    private int account_type;
    double balance;
    void get_data()
    {
        Scanner ss=new Scanner(System.in);
        System.out.println("enter your name");
        name=ss.next();
        System.out.println("enter the account_number");
        account_number=ss.nextLong();
    System.out.println("choose the account type ");
        System.out.println("1.savings account");
        System.out.println("2.current account");
        account_type=ss.nextInt();

    }
    int return_account_type()
    {
        return account_type;
    }
}
class savings extends account
{
    Scanner ss=new Scanner(System.in);
    double amount;
    void get_sav_balance()
    {

        System.out.println("enter the amount to be placed in your savings account");
        amount=ss.nextDouble();
```

```java
{
        System.out.println("enter the amount to be placed in your savings account");
        amount=ss.nextDouble();
        balance+=amount;
}
void display_sav_blnce()
{
        System.out.println("balance="+balance);
}
void compute_sav_interest()
{
        System.out.println("interest of 5% shall be added to your balance");
        balance=balance+(.05*balance);
}
void withdrawl_sav()
{
        System.out.println("enter the amount to be withdrawn");
        amount=ss.nextDouble();
        balance=balance-amount;
}

}
class current extends account
{
        Scanner ss=new Scanner(System.in);
        double amount;
        final double min_balance=5000;
        void get_cur_balance()
        {
                System.out.println("enter the amount to be placed in your current account");
                amount=ss.nextDouble();
                balance+=amount;
        }
}
```

```java
            amount=ss.nextDouble();
            balance+=amount;
    }
    void display_cur_blnce()
    {
            System.out.println("balance="+balance);
    }
    void compute_cur_service_charges()
    {
            if(balance<min_balance)
            {
                    System.out.println("service tax of rs.500 shall be levied");
                    balance=balance-500;
            }
            else
            {
                    System.out.println("minimum balance is maintained");
            }
    }
    void withdrawl_cur()
    {
            System.out.println("enter the amount to be withdrawn");
            amount=ss.nextDouble();
            balance=balance-amount;
    }

}

class bankmain
{
    public static void main(String args[])
    {
            int type;
            System.out.println("enter the bank details");
```

```java
class bankmain
{
      public static void main(String args[])
      {
            int type;
            System.out.println("enter the bank details");
            account acc=new account();
            acc.get_data();
            type=acc.return_account_type();
            if (type==1)
      {
       System.out.println("SAVINGS ACCOUNT");
       savings sav=new savings();
            sav.get_sav_balance();
            sav.display_sav_blnce();
            sav.compute_sav_interest();
            sav.display_sav_blnce();
            sav.withdrawl_sav();
            sav.display_sav_blnce();

      }
      if(type==2)
      {
      System.out.println("CURRENT ACCOUNT");
            current cur=new current();
            cur.get_cur_balance();
            cur.display_cur_blnce();
            cur.compute_cur_service_charges();
            cur.display_cur_blnce();
            cur.withdrawl_cur();
            cur.display_cur_blnce();

      }
      }
}
```

```
Command Prompt                                                    ─  □  ✕

C:\Users\Nikita\Desktop>cd ooj_lab

C:\Users\Nikita\Desktop\OOJ_LAB>java Shapemain
Enter length and breadth:
4
5
Area of Rectangle=20
Enter height and base:
6
4
Area of Triangle=12.0
Enter radius:
4
Area of Circle=50.272

C:\Users\Nikita\Desktop\OOJ_LAB>java bankmain
enter the bank details
enter your name
nikita
enter the account_number
1234567890
choose the account type
1.savings account
2.current account
1
SAVINGS ACCOUNT
enter the amount to be placed in your savings account
5000
balance=5000.0
interest of 5% shall be added to your balance
balance=5250.0
enter the amount to be withdrawn
2000
balance=3250.0

C:\Users\Nikita\Desktop\OOJ_LAB>java bankmain
enter the bank details
enter your name
nikita
enter the account_number
1234567890
```

```
enter the account_number
1234567890
choose the account type
1.savings account
2.current account
1
SAVINGS ACCOUNT
enter the amount to be placed in your savings account
5000
balance=5000.0
interest of 5% shall be added to your balance
balance=5250.0
enter the amount to be withdrawn
2000
balance=3250.0

C:\Users\Nikita\Desktop\OOJ_LAB>java bankmain
enter the bank details
enter your name
nikita
enter the account_number
1234567890
choose the account type
1.savings account
2.current account
2
CURRENT ACCOUNT
enter the amount to be placed in your current account
4000
balance=4000.0
service tax of rs.500 shall be levied
balance=3500.0
enter the amount to be withdrawn
1000
balance=2500.0

C:\Users\Nikita\Desktop\OOJ_LAB>
```