

```
1. 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*b));
    }
}
```

```
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();
}
}

```

2.

```

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 the 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();
```

```
balance += amount;
```

```
}
```

```
void display_sav_balance()
```

```
{
```

```
System.out.println("balance = "+balance);
```

```
}
```

```
void compute_sav_interest()
```

```
{
```

```
System.out.println("Interest of 5% shall be added to your  
balance");
```

```
balance = balance + (0.05 * balance);
```

```
}
```

```
void withdraw_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System.out.println("Enter the amount to be withdrawn");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  
account");
```

```
amount = ss.next Double ();
```

```
balance += amount;
```

```
}
```

```
void display-cur-balance()
```

```
{
```

```
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 = sc.nextDouble();
    balance = balance - amount;
}
}
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.getCurBalance();
```

```
cur.displayCurBalance();
```

```
cur.computeCurServiceCharges();
```

```
cur.displayCurBlnce();
```

```
cur.withdrawalCur();
```

```
cur.displayCurBlnce();
```

```
}
```

```
}
```

```
}
```