Expt. No. 5 Date 3/11/2020

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Lab-5

Q. Banking system: 2 accounts 1. Savings account
2. Current account

```
import java.util.Scanner
import java.lang.Math;
class bank
{
  string name;
  int acc-no;
  float bal, si;

  void accept()
  {
    Scanner scan = new Scanner(System.in);
    system.out.println();
    system.out.println("Enter the name of account holder: ");
     name = scan.nextline();
    system.out.println("Enter the account number: ");
    acc-no = scan.nextInt();
    system.out.println("Enter account balance: ");
    bal = scan.nextfloat();
  }
  void display()
  {
     system.out.println();
     System.out.println("Details");
     system.out.println("Name: "+name+"\n Account
                 number: "+acc-no+"\n Balance"+bal);
  }
```

Teacher's Signature

```
void deposits()
{
 system.out.println();
 Scanner scan = new Scanner(System.in);
 System.out.println("\n Do you want to Deposit
                    (1 for yes, 2 for no): "));
 int d = scan.nextInt();
 if(d==1)
 {
  system.out.println("Enter the amount to be
                     deposited:  ");
  int amt = scan.nextInt();
  bal = bal + amt;
  system.out.println("Available balance = " + bal);
 }
 }
}
class current extends bank
{
 float service_charge =100;
 void cheque()
 {
  system.out.println("\n Cheque service Available");
 }
 void withdrawal()
 {
  float amount;
  scanner scan= new Scanner(System.in);
```

Teacher's Signature

```
system.out.println("Minimum balance = Rs 1000.00");
system.out.println("Enter the amount to be withdrawn:");
amount = scan.nextfloat();
if(amount >bal)
   system.out.println("Balance is insufficient");
else
{
   bal = bal- amount
   if(bal<1000)
    {
      bal = bal - service-charge;
      system.out.println("Service charge of Rs "+ service-
                          charge+" Rs added.");
      system.out.println("Available balance = "+bal);
    }
   else
    {
      system.out.println(amount + "withdrawn");
      system.out.println("Available balance = "+bal);
    }
  }
}
class saving extends banks
{.
  void cheque()
  {
    system.out.println("\n No cheque services");
  }
```

Teacher's Signature _____

```
void simple-Interest()
{
  system.out.println();
  Scanner scan = new Scanner(system.in);
  system.out.println("\n Enter rate of interest: ");
  int r = scan.nextInt();
  system.out.println("Enter the number of times
                    interest applied per time period: ");
  int n = scan.nextInt();
  system.out.println("Enter the time elapse: ");
  int t = scan.nextInt();
  si = bal*(1+r/n);
  system.out.println("simple interest = Rs " +(Math.pow
                                    (si, n*t)));
}
void withdrawal()
{
  float amount;
  Scanner scan = new scanner (system.in);
  system.out.println("No minimum balance required!");
  System.out.println("Enter the amount to be withdrawn:");
  amount = scan.nextFloat();
  if (amount > bal)
   system.out.println("Balance insufficient");
  else
  {
    bal = bal- amount;
    system.out.println(amount+ "withdrawn");
```

Teacher's Signature

```
        System.out.println("Available balance = " + bal);
      }
    }
}
Public class Main
{
  public static void (Strings[] arg)
  {
    savings obj1 = new savings();
    current obj2 = new current();
    system.out.println("1 savings");
    System.out.println("2. current");
    system.out.println("Enter your choice");
    scanner scan = new scanner(system.in);
    int ch = scan.nextInt();
    switch(ch)
      {
        case 1: obj1 = new savings();
                obj1.accept();
                obj1.display();
                obj1.cheque();
                obj1.deposit();
                obj1.simple_interest();
                obj1.withdrawal
                break;
```

Teacher's Signature

```
case 2 : Obj2 = new current();
         Obj2.accept();
         obj2.display();
         obj2.cheque();
         obj2.deposits();
         obj2.simple_interest();
         obj2.withdrawal();
         break;

default : system.out.println("Invalid Input");
    }
  }
}
```