5. Develop a java fregram do cereate a class Bars thois maintains two lands of account for its customers. One called savings account and the other current account. The sovings account forovides companions interest and withdrawal facilities but no wheeper dook facility. The current account forovides chego, look failing but no interest. Current account holders bould also maintain a minimum balance and should also maintain a this level if the balance falls below this level, a service charge is imposed Create a class Account that obtores customer name account number and type of occount . from this derive the classes Cur-act and Sav-ace t to make the more specific to their requirements. Include all the necessary methods in order to delieve to following tasks " a) Accept deposit from curtome and repedate the balance o) Display the balance. c) Compare and deposite interest d) Permit withdrawal and repedate the balance check for the minimum balance, impose fiendly if necessary and update the balance Complete the of import java. util. * ; import java. lang. Math: class bank { Scanner &c: new Scanner (System. in): String name: ind acc-no; flood bal. Si?

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voil accept () &
  System. out. for at In ("Enter your name"):
name = sc. nesctine ():
 System. out. frinklin (" Enter the balance amount" bal = 80 nextfloat ():
 Void display () &
 System. out. foint In ("Name: "+ name):
Void deposit () }
 floor amount;
 int schoice:
 System. out. frint In ("Do you want to defort ( 'for yes
choice: 8c. nesd Ind ();
 if (choice ==1) f
System, out frint la l'Enter the amount to be deposited
 amount = 80, nesulflood ();
 if (amount > bal) f
  System out findle (" Amount in bank insufficient"):
else &
bal : bal + amount;
System. out, for will ("Current balance:
```

```
class current extends bank {
         Service - fee : 50:
   Void chaque() }
   System. out. Brint In ("Cheque Service available")
  Void withdrawal () {
  System. out. frontln (" Enter the amount to be within
  float ant:
  ant = 8 c. next float ();
    if (and > bal)
   System out. Brist In ("Balance insufficient"):
    else f
   bal = bal - ount;
  if (bal < 1000) $
     bal = bal - Service-fee;
     System out. frint In ("50" is Laken as service fee")
   System. out , for Alm ("Withdrawn: "+amt);
   System. out, frint In ("Current balance: "+ bal);
class Savings extends bank i
System out, frindly (" cheque service not available");
Void chequel) {
```

```
Void withdrawal () }
    float ant;
    System. out. for ntla ("Enter the amount to be withdrawn).
    ant = 80. next float ():
    if (and shal)
    System.out. for all " Balance insufficient"):
    bal = bal - and :
   System. out. frinkln ("Withdrawn: "+ and)"
    System. out. for at la (" Current balance: "+ bal);
  Void interest () {
   System. out. frintln ("Enter the rate of interest"):
   dut n: 8c. next Int ();
   System. out. find In (" Enter the time elafised");
   dut t = 8c. meset Int():
    Si = bal + (1+ (A/n));
   Eystem. out. Sointle ("Confound interest is" + (Math. pow(si,
bubble class account of
  Suble State void main (String args[]) &
   8 cannos 8 c = new Scanner (System. in):
   Soving obj 1: new Savings ():
   correct obj & : New current ():
System out print In ("In I Savings account In R. Current account
  ; nt choice = 8cone ext Int ();
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Switch Caholce) ? core 1: obj 1. accept (); Oly 1. dieplay (); By to cheque (); Obj. 1. deposit (): Oly: 1. interest (): Oly: 1 withdrawal (): break ? malitall I alle to be a less Case 2: Obj 2. ought (); Oly R. display (); Oly 2. cheque(): Oly 2. defosit () ely 2. withdrawal(); break : default: System. out. frint In ("Invalid choice"): Extended of the foundation of the set of the page

Output:

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    Savings account
    Current account

Enter your name
Dhavan SK
Enter the balance amount
10000
Name : Dhavan SK
Cheque service not available
Do you want to deposit(1 for yes ,2 for no)
Enter the amount to be deposited
5000
Current balance : 15000.0
Enter the rate of interest
Enter the number of times interest applied per time period
Enter the time elapsed
Compound interest is 3.4050628916015623E46
Enter the amount to be withdrawn
4000
Withdrawn : 4000.0
Current balance : 11000.0
```