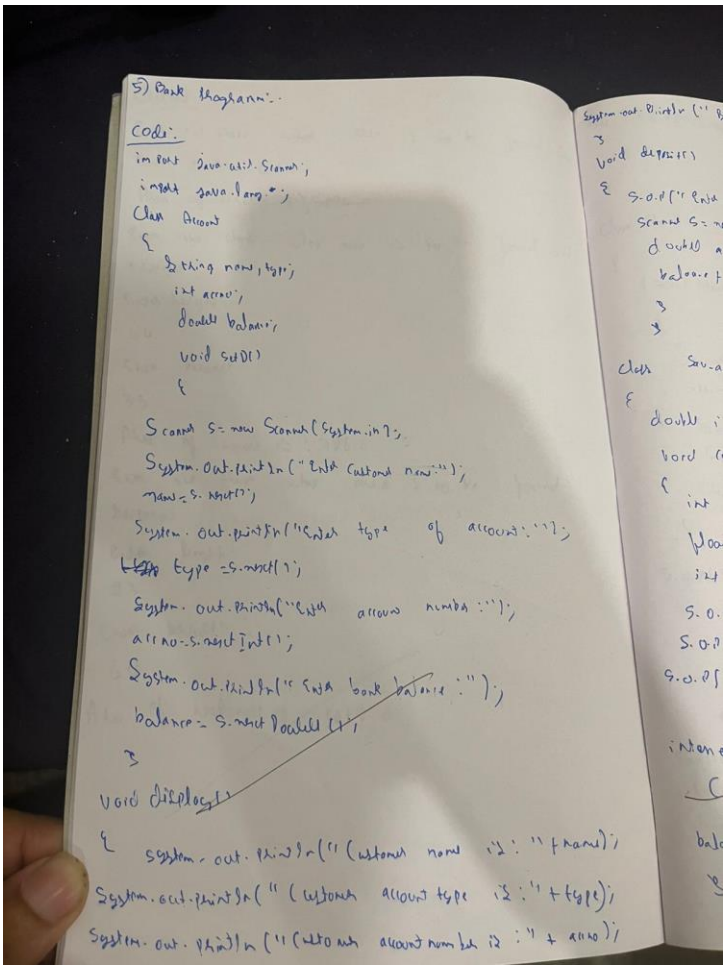
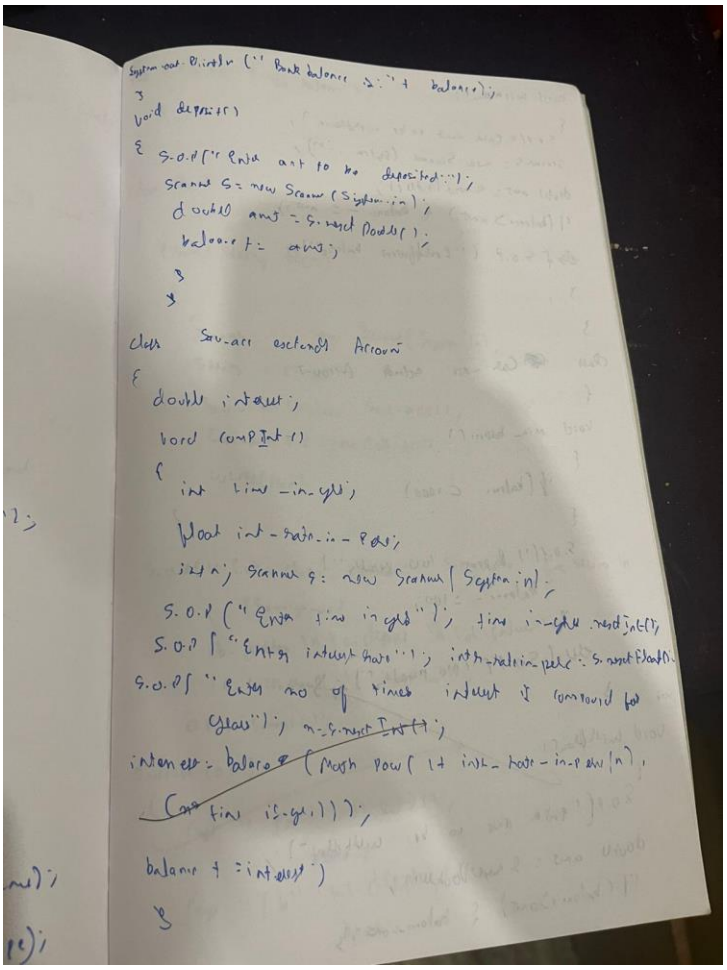
QUESTION AND CODE



5) Bank Program:-

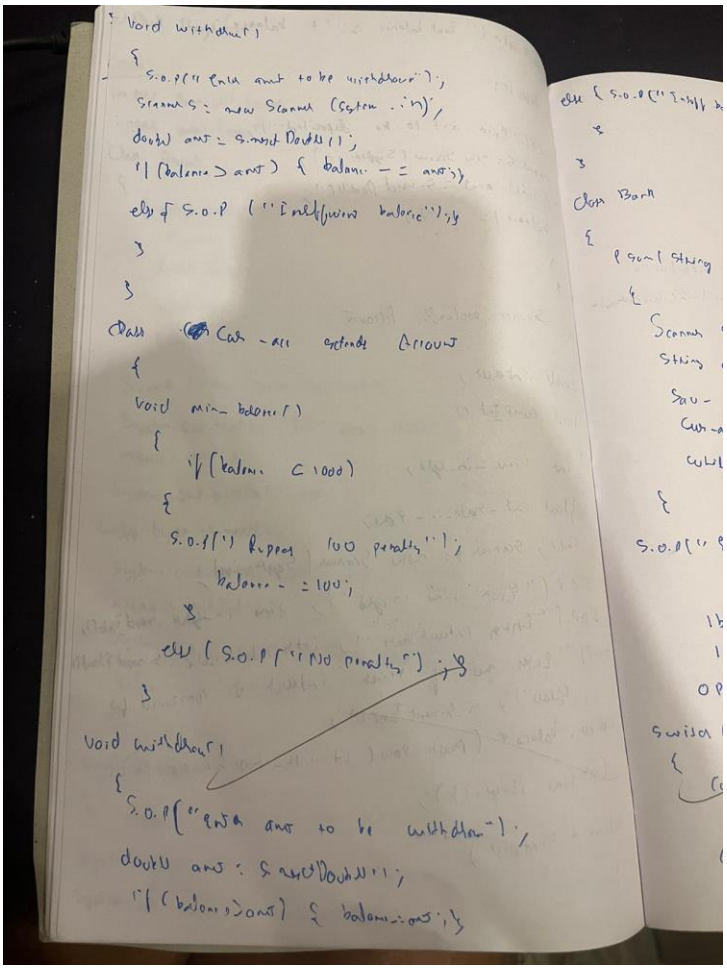
Code:-

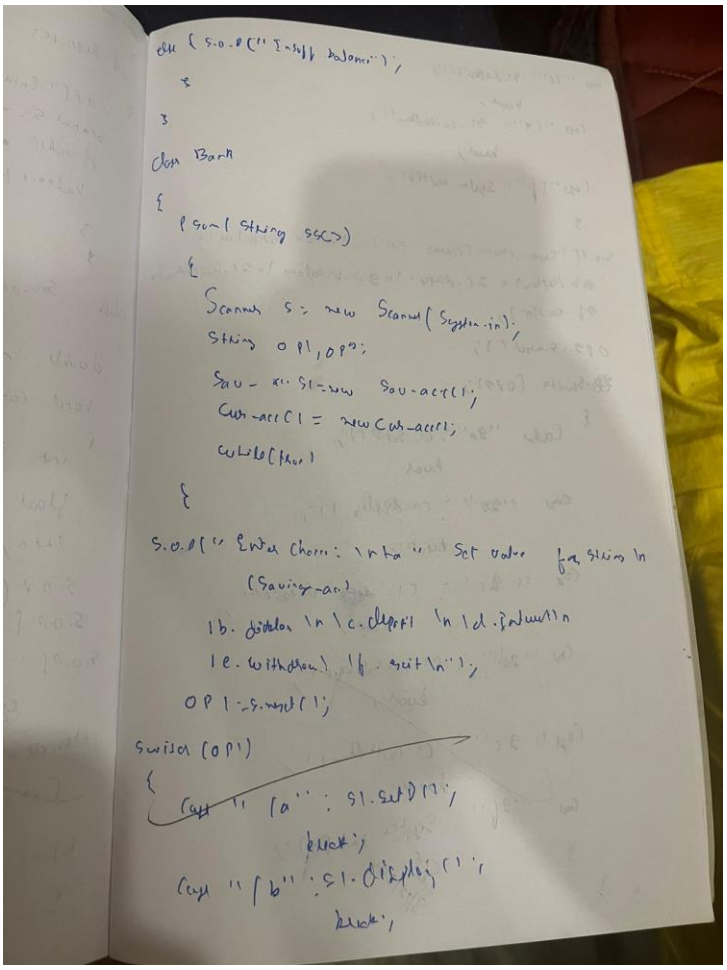
```
import java.util.Scanner;
import java.lang.*;
Class Account
{
   String name, type;
   int accno;
   double balance;
   void setD()
   {
   Scanner S= new Scanner(System.in);
   System.out.println("Enter Customer name:");
   name=S.next();
   System.out.printf("Enter type of account:");
   type =S.next();
   System.out.println("Enter account number:");
   accno=S.nextInt();
   System.out.printf("Enter bank balance:");
   balance= S.nextDouble();
   }
void display()
{  System.out.println("Customer name is:"+name);
System.out.println("Customer account type is:"+type);
System.out.println("Customer account number is:"+accno);
```

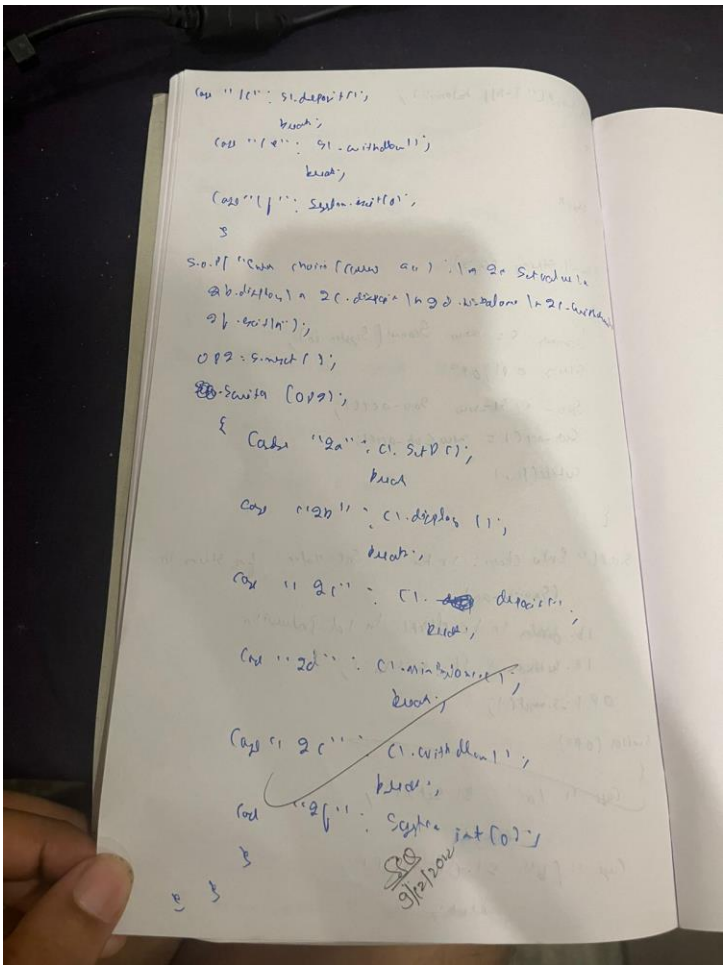


System.out.println(" Bank balance is:" + balance);
}
void deposit()
{ S.o.println("Enter amt to be deposited:");
Scanner S = new Scanner(System.in);
double amt = S.nextDouble();
balance += amt;
}
}

class Savings extends Account
{
double interest;
void compInt()
{
int time_in_yrs;
float int_rate_in_perc;
int n; Scanner s = new Scanner(System.in);
S.o.p("Enter time in yrs"); time_in_yrs = s.nextInt();
S.o.p("Enter interest rate"); int_rate_in_perc = S.nextFloat();
S.o.p("Enter no of times interest is compound per year");
n = S.nextInt();
interest = balance * (Math.pow(1 + int_rate_in_perc/n,
(n * time_in_yrs)));
balance += interest;
}







OUTPUT

```
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1a
Enter customer name: dhruva
Enter type of account: saving
Enter account number: 34
Enter bank balance: 34000
Enter the choice:
2a.Set the values for current account
2b. display
2c. deposit
2d. transferCheck
2e. Withdraw
2f. exit
2a
Enter customer name: dhruva
Enter type of account: current
Enter account number: 333
Enter bank balance: 67000
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1b
Customer name is: dhruva
Customer account type is: saving
Customer account number is: 34
Current balance is: 34000.0
```

```
Enter the choice:
2a.Set the values for current account
2b. display
2c. deposit
2d. transferCheck
2e. Withdraw
2f. exit
2b
Customer name is: dhruva
Customer account type is: current
Customer account number is: 333
Current balance is: 67000.0
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1c
Enter the amount to be deposited: 34000
Enter the choice:
2a.Set the values for current account
2b. display
2c. deposit
2d. transferCheck
2e. Withdraw
2f. exit
2c
Enter the amount to be deposited: 30000
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1d
Enter time in yrs:
2
Enter rate of interest:
10
Enter the number of times interest is compounded per year:
3
```

```
Enter the choice:
2a.Set the values for current account
2b. display
2c. deposit
2d. transferCheck
2e. Withdraw
2f. exit
2b
Customer name is: dhruva
Customer account type is: current
Customer account number is: 333
Current balance is: 97000.0
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1b
Customer name is: dhruva
Customer account type is: saving
Customer account number is: 34
Current balance is: 4.5030512967112005E8
Enter the choice:
2a.Set the values for current account
2b. display
2c. deposit
2d. transferCheck
2e. Withdraw
2f. exit
2d
Enter the check amount: 45600
Rupees 45600.0 debited
Enter the choice:
1a.Set the values for savings acc
1b. display
1c. deposit
1d. Interest
1e. Withdraw
1f. exit
1b
Customer name is: dhruva
Customer account type is: saving
Customer account number is: 34
Current balance is: 4.5030512967112005E8
```