

COMPUTER SCIENCE BOARD PROJECT

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CLASS:XII SEC:H SESSION:Afternoon

ROLL: 1

BOARD REGISTRATION NUMBER: B/2/21/15710/0001

BOARD ROLL NUMBER:

PURPOSE AND WORKING

The purpose of the project is to create, maintain and modify a CSV file containing account details of a minimum of 10 persons.

The data is to be stored in a format:

1. A unique 6-digit alphanumeric account number
2. The name of the account holder
3. The mobile number of the account holder
4. The balance amount in account of the account holder

The program has a menu interface (within a loop) with options to:

- Insert details of a new account (with a starting balance amount)
- Delete an account for a given account number
- Print the account details of a given account using the account number
- Withdraw some amount from a given account number (ensure the required balance is present before withdrawal, otherwise decline the withdrawal)
- Deposit an amount into a given account
- Update phone number of a given account

CODE:

#ABHINANDAN SAHA

#XII H AFTERNOON

```
import csv
```

```
opt=1
```

```
while opt!=0:
```

```
    print("Enter 1 to INSERT details for the new account:
```

```
    Enter 2 to DELETE an account:
```

```
    Enter 3 to PRINT the details of the account:
```

```
    Enter 4 to WITHDRAW money from the account:
```

```
    Enter 5 to DEPOSIT money into the account:
```

```
    Enter 6 to change the MOBILE NUMBER of the account:
```

```
    Enter 0 to EXIT the program:  ")
```

```
    opt=int(input("Enter the option number:"))
```

```
    if opt==1:
```

```
        #WRITE A NEW ACCOUNT DETAIL USING CSV MODULE
```

```
        fout=open("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT","a")
```

```
        csvobj=csv.writer(fout)
```

```
        a=input("Enter the new account number:")
```

```
        n=input("Enetr the name for the new account:")
```

```
        m=input("Enter the mobile number for the account:")
```

```
        b=input("Enter the starting balance for the account:")
```

```
        rec=[a,n,m,b]
```

```
        csvobj.writerow(rec)
```

```

fout.close()

print("Account added")

if opt in (2,3,4,5,6):

    #ACCOUNT NUMBER IS NECESSARY FOR ALL OPTIONS

    acc=input("Enter the account number:")

    if opt==2:

        #NEW TEMPORARY FILE CREATED TO MODIFY THE DATA AND LATER DELETED

        import os

        fout=open("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT1","w")

        csvobj=csv.writer(fout)

        fin=open("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT","r")

        obj=csv.reader(fin)

        for row in obj:

            l=list(row)

            if l==[]:

                continue

            elif l[0]!=acc:

                csvobj.writerow(row)

        fin.close()

        fout.close()

        os.remove("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT")

        os.rename("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT1","C:\\Users\\abhin\\

        OneDrive\\Documents\\AcntDT")

        print("Account deleted")

    if opt==3:

        #DETAILS OF ACCOUNT

        fin=open("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT","r")

```

```

csvobj=csv.reader(fin)
for row in csvobj:
    l=list(row)
    if l==[]:
        continue
    elif l[0]==acc:
        print("The account number is:",l[0])
        print("The Name of the account holder is:", l[1])
        print("The Mobile number linked is:",l[2])
        print("The Balance in the account is:",l[3])
fin.close()
if opt==4:
    #CREATED NEW FILE TO MODIFY DATA AND THEN DELETED
    import os
    fout=open("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT1","w")
    csvobj=csv.writer(fout)
    fin=open("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT","r")
    obj=csv.reader(fin)
    for row in obj:
        l=list(row)
        if l==[]:
            continue
        elif l[0]!=acc:
            csvobj.writerow(row)
        if l[0]==acc:
            if l[-1]=="0":
                print("No money to withdraw")

```

```

else:
    rec=[l[0],l[1],l[2]]
    wi=int(input("Enter the money to be withdrawn:"))
    bal=int(l[-1])-wi
    bal=[str(bal)]
    rec=rec+bal
    csvobj.writerow(rec)

fin.close()
fout.close()

os.remove("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT")
os.rename("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT1","C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT")

if opt==5:
    #CREATED NEW FILE TO MODIFY DATA AND LATER DELETED
    import os
    fout=open("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT1","w")
    csvobj=csv.writer(fout)
    fin=open("C:\\Users\\abhin\\OneDrive\\Documents\\AccntDT","r")
    obj=csv.reader(fin)
    for row in obj:
        l=list(row)
        if l==[]:
            continue
        elif l[0]!=acc:
            csvobj.writerow(row)
        if l[0]==acc:
            rec=[l[0],l[1],l[2]]

```

```

        wl=int(input("Enter the money to be deposited:"))
        bal=int(l[-1])+wl
        bal=[str(bal)]
        rec=rec+bal
        csvobj.writerow(rec)

    fin.close()
    fout.close()

    os.remove("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT")
    os.rename("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT1","C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT")

if opt==6:
    #MODIFIED DATA IN NEW FILE AND LATER DELETED
    import os
    fout=open("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT1","w")
    csvobj=csv.writer(fout)
    fin=open("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT","r")
    obj=csv.reader(fin)
    for row in obj:
        l=list(row)
        if l==[]:
            continue
        elif l[0]!=acc:
            csvobj.writerow(row)
        if l[0]==acc:
            rec=[l[0],l[1]]
            tl=input("Enter the new phone number:")
            rec=rec+[tl]+l[-1]]

```

```
        csvobj.writerow(rec)
    fin.close()
    fout.close()
    os.remove("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT")
    os.rename("C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT1","C:\\Users\\abhin\\OneDrive\\Documents\\AcntDT")
    print("Number updated")
```

OUTPUT:

C:\WINDOWS\py.exe

Enter 1 to INSERT details for the new account:

Enter 2 to DELETE an account:

Enter 3 to PRINT the details of the account:

Enter 4 to WITHDRAW money from the account:

Enter 5 to DEPOSIT money into the account:

Enter 6 to change the MOBILE NUMBER of the account:

Enter 0 to EXIT the program:

Enter the option number:1

Enter the new account number:033111

Enter the name for the new account:Govind Ballav

Enter the mobile number for the account:98365226675

Enter the starting balance for the account:12000

Account added

Enter 1 to INSERT details for the new account:

Enter 2 to DELETE an account:

Enter 3 to PRINT the details of the account:

Enter 4 to WITHDRAW money from the account:

Enter 5 to DEPOSIT money into the account:

Enter 6 to change the MOBILE NUMBER of the account:

Enter 0 to EXIT the program:

Enter the option number:1

Enter the new account number:033112

Enter the name for the new account:Sumaya Khatun

Enter the mobile number for the account:9865203441

Enter the starting balance for the account:13000

Account added

Enter 1 to INSERT details for the new account:

Enter 2 to DELETE an account:

Enter 3 to PRINT the details of the account:

Enter 4 to WITHDRAW money from the account:

Enter 5 to DEPOSIT money into the account:

Enter 6 to change the MOBILE NUMBER of the account:

Enter 0 to EXIT the program:

Enter the option number:1

Enter the new account number:033113

Enter the name for the new account:Akhil Kumar

Enter the mobile number for the account:9864520031

Enter the starting balance for the account:30000

Account added

Enter 1 to INSERT details for the new account:

Enter 2 to DELETE an account:

Enter 3 to PRINT the details of the account:

Enter 4 to WITHDRAW money from the account:

Enter 5 to DEPOSIT money into the account:

Enter 6 to change the MOBILE NUMBER of the account:

Enter 0 to EXIT the program:

Enter the option number:2

Enter the account number:033112

Account deleted

Enter 1 to INSERT details for the new account:

Enter 2 to DELETE an account:

Enter 3 to PRINT the details of the account:

C:\WINDOWS\py.exe

```
Enter 6 to change the MOBILE NUMBER of the account:
Enter 0 to EXIT the program:
Enter the option number:3
Enter the account number:033113
The account number is: 033113
The Name of the account holder is: Akhil Kumar
The Mobile number linked is: 9864520031
The Balance in the account is: 30000
Enter 1 to INSERT details for the new account:
Enter 2 to DELETE an account:
Enter 3 to PRINT the details of the account:
Enter 4 to WITHDRAW money from the account:
Enter 5 to DEPOSIT money into the account:
Enter 6 to change the MOBILE NUMBER of the account:
Enter 0 to EXIT the program:
Enter the option number:4
Enter the account number:033111
Enter the money to be withdrawn:500
Enter 1 to INSERT details for the new account:
Enter 2 to DELETE an account:
Enter 3 to PRINT the details of the account:
Enter 4 to WITHDRAW money from the account:
Enter 5 to DEPOSIT money into the account:
Enter 6 to change the MOBILE NUMBER of the account:
Enter 0 to EXIT the program:
Enter the option number:5
Enter the account number:033113
Enter the money to be deposited:50000
Enter 1 to INSERT details for the new account:
Enter 2 to DELETE an account:
Enter 3 to PRINT the details of the account:
Enter 4 to WITHDRAW money from the account:
Enter 5 to DEPOSIT money into the account:
Enter 6 to change the MOBILE NUMBER of the account:
Enter 0 to EXIT the program:
Enter the option number:6
Enter the account number:033111
Enter the new phone number:986523145
Number upadted
Enter 1 to INSERT details for the new account:
Enter 2 to DELETE an account:
Enter 3 to PRINT the details of the account:
Enter 4 to WITHDRAW money from the account:
Enter 5 to DEPOSIT money into the account:
Enter 6 to change the MOBILE NUMBER of the account:
Enter 0 to EXIT the program:
Enter the option number:█
```

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