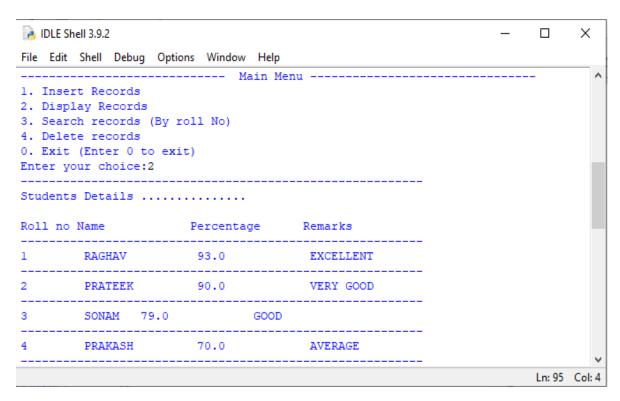
Practical – I

```
import pickle
def Write record(sroll, sname, sperc, sremark):
   with open('Student_record.dat','ab') as FILE:
       Stud rec={'std_roll':sroll,'std_name':sname, 'std_perc':sperc,'std_rmk':sremark}
       pickle.dump(Stud rec,FILE)
def Read_records():
   with open('Student_record.dat','rb') as FILE:
       print('-----')
       print('Students Details .....')
       print('\nRoll no\tName\t\tPercentage\tRemarks')
       print('-----')
       while True:
           try:
               REC =pickle.load(FILE)
               print(REC['std_roll'], '\t', REC['std_name'], '\t', REC['std_perc'], '\t\t',
              REC['std_rmk'])
              print('-----')
           except EOFError:
              break
def Input records():
   N= int(input("How many records you want to create:\t"))
   for ctr in range(N):
       srollno= int(input("Enter Roll no:\t"))
       sname=input("Enter Name:\t")
       sperc=float(input("Enter Percentage:\t"))
       sremks=input("Enter Remarks:")
       Write record(srollno,sname,sperc,sremks)
def Search_record(roll):
   with open('Student_record.dat','rb') as FILE:
       while True:
           try:
               REC=pickle.load(FILE)
              if REC['std roll'] == roll:
                   print('-----')
                   print('\nRoll no\tName\tPercentage\tRemarks')
                   print('-----')
                   print(REC['std_roll'], '\t', REC['std_name'], '\t', REC['std_perc'],
                   '\t',REC['std_rmk'])
           except EOFError:
              break
```

```
def Delete_record(roll):
    with open('Student_record.dat','rb') as FILE:
       NEWREC=[]
       while True:
           try:
               REC = pickle.load(FILE)
               NEWREC.append(REC)
           except EOFError:
               break
    with open('Student_record.dat','wb') as FILE:
       for i in NEWREC:
           if i['std_roll'] == roll:
               continue
           pickle.dump(i, FILE)
def main():
   while True:
       print("-----")
       print('1. Insert Records')
       print('2. Display Records')
       print('3. Search records (By roll No)')
       print('4. Delete records')
       print('0. Exit (Enter 0 to exit)')
       ch= int (input('Enter your choice:'))
       if ch == 1:
           Input records()
       elif ch == 2:
           Read_records()
       elif ch == 3:
           r = int(input('Enter rollno to be searched for; \t'))
           Search record(r)
       elif ch == 4:
           r = int(input("Enter Rollno to be delete:\t"))
           Delete_record(r)
       else:
           break
                =============== MAIN ===================
main()
```

Output:





▶ IDLE Shell 3.9.2	- 🗆	Χ
File Edit Shell Debug Options Window Help		
Main Menu -		^
1. Insert Records		
2. Display Records		
3. Search records (By roll No)		
4. Delete records		
O. Exit (Enter O to exit)		
Enter your choice:3		
Enter rollno to be searched for; 4		
Roll no Name Percentage Remarks		
4 PRAKASH 70.0 AVERAGE		
1 INNANI /VIV AVERNOE		~
	Ln: 95	Col: 4
iDLE Shell 3.9.2	_	

