FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT) $^{\text{TM}}$

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

20MCA131 PROGRAMMING LAB

LABORATORY RECORD

Name: ARJUN AJAYAGHOSH

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 38

University Registration Number: FIT21MCA-2038

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HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ARJUN AJAYAGHOSH(FIT21MCA-2038) in the 20MCA131 PROGRAMMING LAB Laboratory

towards the partial fulfilment for the award of the Master Of Computer Applications during the academic year 2021-2022.

Signature of Staff in Charge	Signature of H O D
Name:	Name:
Date of University practical exa	amination

Signature of Signature of Internal Examiner External Examiner

CONTENT				
SI No:	Date :	Name of Experiment:	Page No:	Signature of Staff –In – Charge:
	CO1			
1	28/10/2021	Display future leap years from current year to a final year entered by user.		
2	28/10/2021	List comprehensions: (a) Generate positive list of numbers from a given list of integers (b) Square of N numbers (c) Form a list of vowels selected from a given word (d) List ordinal value of each element of a word (Hint: use ord() to get ordinal values)		
3	28/10/2021	Count the occurrences of each word in a line of text.		
4	28/10/2021	Prompt the user for a list of integers. For all values greater than 100, store 'over' instead		
5	10/11/2021	Store a list of first names. Count the occurrences of 'a' within the list		
6	10/11/2021	Enter 2 lists of integers. Check (a) Whether list are of same length (b) whether list sums to same value (c) whether any value occur in both.		
7	10/11/2021	Get a string from an input string where all occurrences of first character replaced with '\$', except first character		
8	10/11/2021	Create a string from given string where first and last characters exchanged. [eg: python - > nythop]		
9	10/11/2021	Accept the radius from user and find area of circle.		
10	11/11/2021	Find biggest of 3 numbers entered.		
11	11/11/2021	Accept a file name from user and print extension of that.		

12	11/11/2021	Create a list of colors from commaseparated color names entered by user. Display first and last colors.	
13	11/11/2021	Accept an integer n and compute n+nn+nnn.	
14	17/11/2021	Print out all colors from color-list1 not contained in color-list2.	
15	17/11/2021	Create a single string separated with space from two strings by swapping the character at position 1.	
16	17/11/2021	Merge two dictionaries.	
17	17/11/2021	Find gcd of 2 numbers.	
18	17/11/2021	From a list of integers, create a list removing even numbers.	
	CO2		
19	25/11/2021	Program to find the factorial of a number	
20	25/11/2021	Generate Fibonacci series of N terms	
21	25/11/2021	Find the sum of all items in a list	
22	25/11/2021	Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square.	
23	02/12/2021	Display the given pyramid with step number accepted from user.	
24	02/12/2021	Count the number of characters (character frequency) in a string.	
25	02/12/2021	Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'.	
26	09/12/2021	Accept a list of words and return length of longest word.	

27	09/12/2021	Construct following pattern using nested loop. * ** *** *** *** *** *** **		
28	09/12/2021	Generate all factors of a number.		
	CO3			
29	29/01/2022	Create a package graphics with modules rectangle, circle and sub-package 3D-graphics with modules cuboid and sphere. Include methods to find area and perimeter of respective figures in each module. Write programs that finds area and perimeter of figures by different importing statements. (Include selective import of modules and import * statements)		
	CO4			
30	13/01/2022	Create Rectangle class with attributes length and breadth and methods to find area and perimeter. Compare two Rectangle objects by their area.		
31	29/01/2022	Create a Bank account with members account number, name, type of account and balance. Write constructor and methods to deposit at the bank and withdraw an amount from the bank.		
32	29/01/2022	Create a class Rectangle with private attributes length and width. Overload '<' operator to compare the area of 2 rectangles.		
<u> </u>				

Department of Computer Applications			
33	20/01/2022	Create a class Time with private attributes hour, minute and second. Overload '+' operator to find sum of 2 time	
34	29/01/2022	Create a class Publisher (name). Derive class Book from Publisher with attributes title and author. Derive class Python from Book with attributes price and no_of_pages. Write a program that displays information about a Python book. Use base class constructor invocation and method overriding.	
CO5			
35	03/02/2022	Write a Python program to read a file line by line and store it into a list.	
36	03/02/2022	Write a Python program to read each row from a given csv file and print a list of strings.	

1) Display future leap years from current year to a final year entered by User.

Source code

```
print ("Print leap year between two given years") startyear=int(input("Enter start year")) endyear=int(input("Enter last year")) print ("List of leap years:") for year in range(startyear, endyear): if (0 == year % 4) and (0!=year%100) or (0==year%400): print (year)
```

Output

```
print leap year between two given years
Enter startyear2000
Enter end year2020
list of leap years
2000
2004
2008
2012
```

- 2) List comprehensions:
 - a. Generate positive list of numbers from a given list of integers.

```
list=[-11,0,3,-34,4,5]

print("Elements in the list are:",list) print("Positive numbers in the list")

for num in list:

if num>=0:

print(num)
```

```
stud@debian:~/python$ python3 list1.py
0
3
4
5
```

b. Square of N numbers

Source code

```
n=int(input('Enter range:'))
for num in range(1,n+1):
    num=num*num
    print(num)
```

Output

```
stud@debian:~/python$ python3 list2.py
[1, 4, 9, 16, 25]
```

c. Form a list of vowels selected from a given word.

Source code

```
s="are"
list=[]
for i in s:
    if i in "aeiouAEIOU":
        list.append(i)
print("vowels in the list are:")
print(list)
```

```
stud@debian:~/python$ python3 list3.py
['a']
['a', 'e']
__
```

d. List ordinal values of each element of a word.

```
Source code
```

```
word = input("enter the word:")
print([ord(x) for x in word])

Output
stud@deblan:~/python$ python3 list4.py
Enter the word :ashna
[97, 115, 104, 110, 97]
```

3) Count the occurrences of each word in a line of text.

```
list1=[]
list2=[]
x=input("Enter a line of text:")
for i in x.split(" "):
       list1.append(i)
       if i not in list2:
              list2.append(i)
for i in list2:
print(i,"\t",list1.count(i))
Output
stud@debian:~/python$ python3 3.py
Enter a line of text:welcome to fisat
welcome
to
            1
fisat
            1
```

4) Prompt the user for a list of integers. For all values greater than 100, store 'over' instead.

Source code

```
list=[]
while True:
    n=int(input('Enter an integer: '))
if(n<=100):
        list.append(n)
else:
        list.append('over')
        print(list)</pre>
```

Output

```
stud@debian:~/python$ python3 4.py
Enter an integer: 12
Enter an integer: 15
Enter an integer: 100
Enter an integer: 105
[12, 15, 100, 'over']
```

5) Store a list of first names. Count the occurrences of 'a' within thelist.

```
list=['akash','dev','arun'] print("Elements in the list are:")
print(list)
count=0
for word in list:
    for i in word:
        if i=='a':
              count+=1
print("count of 'a' is:", count)
```

```
stud@debian:~/python$ python3 5.py
Elements in the list are:
['akash', 'dev', 'arun']
count of 'a' is: 3
```

- 6) Enter 2 lists of integers. Check
 - a. whether list are of same length
 - b. whetherlist sums of same value
 - c. whether any value occur in both.

```
11=[3,7,9,7]
12=[6,2,2,2]
print("List 1",11)
print("List 2",12)
x=len(11)
y=len(12)
if x==y:
print("List are of same length")
else:
print("Length of lists are different")
s1=0
s2 = 0
for i in range(x):
s1=s1+l1[i]
print("Sum of elements of List1:",s1)
for j in range(y):
s2=s2+12[i]
print("Sum of elements of List2:",s2)
if s1==s2:
```

```
print("Sum of list elements is same")
    else:
     print("Sum of list elements is not same")
    print("Common elements are:")
    for i in range(x):
     for j in range(y):
            if 11[i] == 12[j]:
                   print(l1[i])
    Output
    [3, 7, 9, 7]
[6, 2, 2, 2]
    list are of same length
    The sum of list one is 26
    The sum of list two is 12
    the sum of 2 lists are not same
    no common elements
7) Get a string from an input string where all occurrences of first character
   replaced with '$',except first character.[eg:onion->oni$n]
    Source code
    str=input("Enter a string: ")
    print("Original string is: ",str)
    char=str[0]
    str=str.replace(char,'$')
    str=char+str[1:]
    print("String: ",str)
    Output
  stud@debian:~/python$ python3 7.py
  Enter a string: onion
  Original string is: onion
  String: oni$n
  stud@debian:~/python$
```

8) Create a string from given string where first and last characters exchanged.

```
[eg:python->nythop]
```

```
Source code
```

```
s=input("Enter a string: ")
t=s[0]
t1=s[-1]
n=len(s)
ns=t1+s[1:n-1]+t
print(ns)
Output
stud@debian:~/python$ python3 8.py
Enter a string: python
```

9) Accept the radius from the user and find the area of the circle.

Source code

nythop

```
r=int(input('Enter the radius: '))
A=3.14*r*r
print(A)
```

Output

```
stud@debian:~/python$ python3 9.py
Enter the radius: 7
153.86
```

10) Find the biggest of 3 numbers

Source code

print(b)

```
a=int(input('Enter first number:'))
b=int(input('Enter second number:'))
c=int(input('Enter third number:'))
if a>b and a>c:
  print(a)
if b>a and b>c:
```

```
if c>a and c>b:
     print(c)
    Output
    L-, -, -, ·, -,
    stud@debian:~/python$ python3 lar.py
    Enter first number:6
    Enter second number:9
    Enter third number:23
     Andodekien i independ
11) Accept a file name from user and print extension of that.
    Source code
    import os
    a=input("Enter file name:")
    print("The extension of file",a,"is",os.path.splitext(a))
    Output
    stud@debian:~/python$ python3 11.py
    Enter file name:5.py
    The extension of file 5.py is ('5', '.py')
12) Create a list of colors from comma-separated color names entered by user.
   Display first and last colors.
    Source code
    colors=[]
```

```
colors=[]
str=(input("Enter color names:"))
for i in str.split(','):
  colors.append(i)
print(colors)
print("first color:",colors[0],"Last color:",colors[-1])
```

```
stud@debian:~/arunl$ python3 coll3.py
enter the colors:red,green,blue,black,yellow
['red', 'green', 'blue', 'black', 'yellow']
first color: red
last color: yellow
stud@debian:~/arunl$
```

13) Accept an integer n and compute n+nn+nnn.

Source code

```
n=int(input("Enter the number:"))
a=n*1
b=n*11
c=n*111
s=a+b+c
print(n,"+",n,"*",n,"+",n,"*",n,"*",n,"=",s)
Output
stud@debian:~/python$ python3 13.py
Enter the number:18
18 + 18 * 18 + 18 * 18 * 18 = 2214
```

14) Print out all color from color-list1 not contained incolor-list2

```
11=['red','green','blue','yellow','black']
12=['red','green','yellow']
print(11)
print(12)
print("Colors that are not in 11:
")
for i in 11:
   if i not in 12:
        print(i)
```

```
stud@debian:~/python$ python3 14.py
['red', 'green', 'blue', 'yellow', 'black']
['red', 'green', 'yellow']
Colors that are not in l1:
blue
black
```

15) Create a single string separated with space from two strings by swapping the character at position 1.

Source code

```
str1=input("Enter first string:")
str2=input("Enter second string:")
str3=str2[0]+str1[1:]+" "+str1[0]+str2[1:]
print(str3)
```

Output

```
stud@debian:~/python$ python3 15.py
Enter first string:arun
Enter second string:g
grun a
```

16) Merge two dictionaries.

Source code

```
D1={"Name":"Aju","Age":"22"}
D2={"Gender":"m"}
D1.update(D2)
print("After merging...")
print(D1)
```

```
stud@debian:~/arun1$ python3 oxf.py
{'name': 'aju', 'age': '22', 'sex': 'm'}
aju
stud@debian:~/arun1$
```

17) Find gcd of 2 numbers

Source code

Output

```
stud@debian:~/python$ python3 17.py
Enter a value : 12
Enter second value: 54
gcd is 6
```

18) From a list of integers, create a list removing even numbers.

Source code

```
l1=[1,2,3,4,5,6,7,8,9,10]
print(l1)
l2=[]
for i in range(len(l1)):
    if l1[i]%2!=0:
        l2.append(l1[i])
print("List after removing even elements")
print(l2)
```

```
stud@debian:~/python$ python3 18.py
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
List after removing even elements
[1, 3, 5, 7, 9]
```

19) Program to find the factorial of a number.

```
Source code
```

```
n=int(input('Enter a number:'))
fact=1
for i in range (1,n+1):
    fact=fact*i
print(fact)
Output
stud@debian:~$ python3 new.py
enter the value:4
24
stud@debian:~$
```

20) Generate fibonacci series of N terms.

21) Find the sum of all items in a list.

Source code

```
list=[1,6,3,4,1]
print("List elements are:",list)
sum=0
for i in list:
        sum=sum+i
print("The sum of list elements is:",sum)
Output
stud@debian:~$ python3 new.py
List elements are: [1, 6, 3, 4, 1]
The sum of list elements is: 15
stud@debian:~$
```

22) Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square.

```
limit1=1000
limit2=9999
list1=[]
for i in range(limit1,limit2):
    j=i
    digit=[]
    while(i!=0):
        digit.append(i%10)
```

```
i=int(i/10)
     count=0
     for n in digit:
            if n%2==0:
                   count=count+1
            if count==4:
                   for k in range(31,100):
                         if((k**2)==j):
                                list1.append(j)
                                print(k)
   print(list1)
   Output
   stud@debian:~$ python3 new.py
   78
   80
   [4624, 6084, 6400, 8464]
23) Display the given pyramid with step number accepted from user.
```

```
n=int(input("Enter a number:"))
for j in range(0,n+1):
  for i in range(1,j+1):
          i=j*i
          print(i,end=" ")
  print("\n")
```

```
Output
   stud@debian:~$ python3 new.py
    Enter a number:4
    2 4
    3 6 9
    4 8 12 16
24) Count the number of characters (character frequency) in a string.
   Source code
   string=input("Enter a string:")
   list1=[]
   for i in string:
     if i not in list1:
            list1.append(i)
   for i in list1:
     count=0
     for j in string:
            if(i==j):
                   count = count + 1
     print(i,"\t:",count)
   Output
   stud@debian:~$ python3 new.py
   Enter a string:college
             : 1
   ι
             : 2
             : 2
   stud@debian:~$ ■
```

25) Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'.

Source code

```
string=input("Enter a string:")
if(string[-3:]=="ing"):
    string+="ly"
else:
    string+="ing"
print(string)
```

Output

```
stud@debian:~$ python3 new.py
Enter a string:go
going
stud@debian:~$ python3 new.py
Enter a string:coming
comingly
stud@debian:~$
```

26) Accept a list of words and return length of longest word.

```
lis=[]
n=int(input("Enter the range:"))
print("Enter the words:")
for i in range(0,n):
            lis.append(input(""))
longest=lis[0]
for i in range(1,n):
            if(len(lis[i])>len(longest)):
            longest=lis[i]
print("Length of longest word is",len(longest))
```

```
Output
   stud@debian:~$ python3 new.py
   Enter the range:3
   Enter the words:
   fisat
   college
   angamaly
   Length of longest word is 8
27) Construct following pattern using nested loop.
   Source code
   for i in range(1,6):
     for j in range(1,i+1):
            print("*",end=" ")
     print("\n")
   for i in range(4,0,-1):
     for j in range(1,i+1):
            print("*",end=" ")
     print("\backslash n")
```

```
Output
   stud@debian:~$ python3 new.py
28) Generate all factors of a number.
   Source code
   n=int(input("Enter a number:"))
   print("Factors are")
   for i in range(1,n+1):
     if(n%i==0):
           print(i)
   Output
   stud@debian:~$ python3 new.py
   Enter a number:56
   Factors are
   14
   28
```

29) Create a package graphics with modules rectangle, circle and sub-package 3D-graphics with modules cuboid and sphere. Include methods to find area and perimeter of respective figures in each module. Write programs that finds area and perimeter of figures by different importing statements. (Include selective import of modules and import * statements)

Source code

```
Graphice\circle.py
```

```
from math import pi
def area_circle(radius):
    return pi*radius*radius
def perimeter_circle(radius):
    return 2*pi*radius
```

Graphics\rectangle.py

```
def area_rec(length,width):
    return length*width
def perimeter_rec(length,width):
    return 2*(length+width)
```

Graphics\tdgraphics\cuboid.py

```
def area_cuboid(l,b,h):
    return 2*(l*h + b*h + l*b)
def volume_cuboid(l,b,h):
    return 1*b*h
```

Graphics\tdgraphics\sphere.py

```
from math import pi
def area_sphere(radius):
    return 4*(pi*radius*radius)
def perimeter_sphere(radius):
    return 2*pi*radius
```

```
graphics.py (driver code)
import Graphics
from Graphics import circle, rectangle
from Graphics.tdgraphics import cuboid,sphere
from Graphics.circle import *
print("Area of a circle with radius 10 is: ",circle.area_circle(10))
print("Permeter of a circle with radius 10 is ",circle.perimeter_circle(10))
print("\n")
print("Area of a Rectangle with length and width 10 is:
      ",rectangle.area_rec(10,10))
print("Permeter of a Rectangle with length and width 10 is:
     ",rectangle.perimeter_rec(10,10))
print("\n")
print("Area of a cuboid with length, width, height 10 is:
     ",cuboid.area_cuboid(10,10,10))
print("Volume of a cuboid with length, width, height 10 is:
      ",cuboid.volume_cuboid(10,10,10))
print("\n")
print("Area of a spere with radius 10 is: ",sphere.area_sphere(10))
print("Permeter of a spere with radius 10 is ",sphere.perimeter_sphere(10))
```

```
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C:\Users\owner\Desktop\LAB MCA\PYTHON\record\co3\2.py
Area of rectangle :144
Area of circle :36
Area of sphere :1808.6399999999999
Area of cuboid :95551488
Perimeter of rectangle :48
Perimeter of rectangle :37.68
Diameter of sphere :24
Periameter of cuboid :184

C:\Users\owner\Desktop\LAB MCA\PYTHON\record\co3\
```

30) Create Rectangle class with attributes length and breadth and methods to find area and perimeter. Compare two Rectangle objects by their area.

```
Source code
```

```
class Rectangle:
  def_init_(self,length,breadth):
          self.length = length
         self.breadth = breadth
  def area(self):
         return self.length * self.breadth
  def perimeter(self):
         return 2*(self.length + self.breadth)
l=int(input("Enter length of rectangle1: "))
b=int(input("Enter breadth of rectangle1: "))
rect1 = Rectangle(l,b)
a1=rect1.area()
p1=rect1.perimeter()
print("Area:",a1)
print("Perimeter:",p1)
l=int(input("Enter length of rectangle2: "))
b=int(input("Enter breadth of rectangle2: "))
rect2 = Rectangle(l,b)
a2=rect2.area()
p2=rect2.perimeter()
print("Area:",a2)
```

```
print("Perimeter:",p2)
    if (a1>a2):
      print("First rectangle is larger")
    elif a1==a2:
      print("Rectangles are of same area")
    else:
      print("Second rectangle is larger")
    Output
    stud@debian:~$ python3 new.py
    Enter length of rectangle1: 6
    Enter breadth of rectangle1: 4
    Area: 24
    Perimeter: 20
    Enter length of rectangle2: 8
    Enter breadth of rectangle2: 6
    Area: 48
    Perimeter: 28
    Second rectangle is larger
 31) Create a Bank account with members account number, name, type of
    account and balance. Write constructor and methods to deposit at the bank
    and withdraw an amount from the bank.
    Source code
class bank:
        def_init_(self,accno,name,tyacc,bal):
                self.accno=accno
                self.name=name
                self.tyacc=tyacc
                self.bal=bal
        def deposit(self,x):
                self.bal=self.bal+x
                print("Account of",self.name)
                print("after deposit:",self.bal)
        def withdraw(self,y):
                if(y<self.bal):
                         self.bal=self.bal-y
                         print("____")
                         print("Account of",self.name)
```

```
Department of Computer Applications
                            print("after withdraw:",self.bal)
                  else:
                            print("insufficient balance")
         def display_balance(self):
                  return self.bal
acc1=bank(1,"Arun","savings",10000)
while(1):
         print("1.Deposit\n2.Withdraw\n3.Display balance\n4.Exit\n")
         ch=int(input("Enter your choice:"))
         if ch==1:
                  amt=int(input("Enter the amount:"))
                  b=acc1.deposit(amt)
         elif ch==2:
                  amt=int(input("Enter the amount:"))
                  b=acc1.withdraw(amt)
         elif ch==3:
                  cb=acc1.display_balance()
                  print("Current balance:",cb)
         elif ch==4:
                  exit(1)
         else:
                  print("Invalid choice")
```

```
Output

    Deposit

  2.Withdraw
  3.Display balance
  4.Exit
  Enter your choice:3
  Current balance: 10000
   1.Deposit
  Withdraw
  3.Display balance
  4.Exit
  Enter your choice:1
  Enter the amount:2000
  Account of Arun
  after deposit: 12000
  1.Deposit
  2.Withdraw
  3.Display balance
  4.Exit
  Enter your choice:2
  Enter the amount:3000
  Account of Arun
  after withdraw: 9000
  1.Deposit
  2.Withdraw
  Display balance
  4.Exit
  Enter your choice:
32) Create a class Rectangle with private attributes length and width. Overload
  '<' operator to compare the area of 2 rectangles.
  Source code
  class Rectangle:
    def init (self,length,breadth):
          self._length = length
          self._breadth = breadth
    def__lt__(self,rect2):
```

```
if self._length*self._breadth < rect2._length*rect2._breadth:
                   return True
            else:
                   return False
   l=int(input("Enter length of rectangle1: "))
   b=int(input("Enter breadth of rectangle1: "))
   rect1 = Rectangle(l,b)
   l=int(input("Enter length of rectangle2: "))
   b=int(input("Enter breadth of rectangle2: "))
   rect2 = Rectangle(l,b)
   if rect1 < rect2:
     print("Second rectangle is larger")
   else:
     print("First rectangle is larger")
   output
   studguentan: ~/arunts pythons overtoau.py
   Enter length of rectangle1: 5
   Enter breadth of rectangle1: 3
   Enter length of rectangle2: 8
   Enter breadth of rectangle2: 4
   Second rectangle is larger
   stud@debian:~/arun1$
33) Create a class Time with private attributes hour, minute and second.
   Overload '+' operator to find sum of 2 time.
   Source code
   class Time:
     def_init_(self,hr,min,sec):
            self._hr=hr
```

```
self._min=min

self._sec=sec

def_add__(t1,t2):
    hr=t1._hr+t2._hr
    min=t1._min+t2._min

sec=t1._sec+t2._sec
    print(hr,":",min,":",sec)

t1=Time(3,45,56)

t2=Time(4,20,3)

t1+t2
```

```
Time1(2,15,46)
Time2(6,20,10)
after addition
8:35:56
```

34) Create a class Publisher (name). Derive class Book from Publisher with attributes title and author. Derive class Python from Book with attributes price and no_of_pages. Write a program that displays information about a Python book. Use base class constructor invocation and method overriding. Source code

```
class Publisher(object):

def_init_(self,name):

self.name=name

def display1(self):

print(self.title)

print(self.author)

class Book(Publisher):
```

```
def_init_(self,name,title,author):
    super()._init_(name)
    self.title=title
    self.author=author
  def display2(self):
    #super().display1()
    print(self.title)
    print(self.author)
class Python(Book):
  def_init_(self,name,title,author,price,no_of_pages):
    super()._init_(name,title,author)
    self.price=price
    self.no_of_pages=no_of_pages
  def display3(self):
    super().display2()
    print(self.price)
    print(self.no_of_pages)
p=Python("ABC Publications", "Taming Python", "jeeva jose", 100,500)
p.display3()
q=Python("XYZ Publications", "Java programming", "E
Balagurusami",500,1200)
q.display3()
Output
         Software
         Aman
         200
         400
         C programming
         Akshay
         600
         800
```

35) Write a Python program to read a file line by line and store it into a list.

Source code

Output

```
["Kerala, a state on India's tropical Malabar Coast, has nearly 600km of Arabian
Sea shoreline. It's known for its palm-lined beaches and backwaters, a network
of canals. Inland are the Western Ghats, mountains whose slopes support tea, cof
fee and spice plantations as well as wildlife."]
```

36) Write a Python program to read each row from a given csv file and print a list of strings.

Source code

```
import csv
with open('people.csv', 'r') as file:
    reader = csv.reader(file)
    for row in reader:
        print(row)
```

```
['Name', 'Age', 'Profession']
['John', '30', 'Manager']
['Jerin', '20', 'Accountant']
['Ann', '22', 'Professor']
['Angel', '24', 'Engineer']
['Sree lakshmi', '28', 'Doctor']
```