FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT) TM

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



20MCA131 PROGRAMMING LAB LABORATORY RECORD

Name: ANZ MARIYA DAVIS

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 34

University Registration Number: FIT21MCA-2034

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ANZ MARIYA DAVIS (FIT21MCA-2034) 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 examinat	ion
V 1	
Signature of	Signature of

External Examiner

Internal Examiner

		<u>CONTENT</u>		
SI No:	Date :	Name of Experiment:	Page No:	Signature of Staff –In – Charge:
		COURSE OUTCOME 1		
1	28/10/2021	Display future leap years from current year to a final year entered by user.	5	
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)	5	
3	28/10/2021	Count the occurrences of each word in a line of text.	7	
4	28/10/2021	Prompt the user for a list of integers. For all values greater than 100, store 'over' instead	8	
5	10/11/2021	Store a list of first names. Count the occurrences of 'a' within the list	9	
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.	9	
7	10/11/2021	Get a string from an input string where all occurrences of first character replaced with '\$', except first character	11	
8	10/11/2021	Create a string from given string where first and last characters exchanged. [eg: python - > nythop]	11	
9	10/11/2021	Accept the radius from user and find area of circle.	12	
10	11/11/2021	Find biggest of 3 numbers entered.	12	
11	11/11/2021	Accept a file name from user and print extension of that.	12	

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

			y company	і дрриший		
27	9/12/2021	Accept a list of words and return length of longest word.	21			
28	9/12/2021	Construct following pattern using nested loop. * ** ** *** *** *** *** ** *	22			
29	9/12/2021	Generate all factors of a number.	23			
		COURSE OUTCOME 3				
30	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)	24			
	COURSE OUTCOME 4					
31	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.	27			
32	13/01/2022	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.	28			

33 13/01/2022 Create a class Rectangle with private attributes length and width. Overload '<' operator to compare the area of 2 rectangles. Create a class Time with private attributes hour, minute and second. Overload '+' operator to find sum of 2 time 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. COURSE OUTCOME 534 Write a Python program to read a file line by line and store it into a list. Write a Python program to read each row from a given csv file and print a list of strings.			Department o	of Computer A	pplications
34 20/01/2022 hour, minute and second. Overload '+' operator to find sum of 2 time 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. COURSE OUTCOME 534 Write a Python program to read a file line by line and store it into a list. Write a Python program to read each row from a given csv file and print a list of	33	13/01/2022	attributes length and width. Overload '<' operator to compare the area of 2	30	
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. COURSE OUTCOME 534 Write a Python program to read a file line by line and store it into a list. Write a Python program to read each row from a given csv file and print a list of	34	20/01/2022	hour, minute and second. Overload '+'	31	
36 03/02/2022 Write a Python program to read a file line by line and store it into a list. Write a Python program to read each row from a given csv file and print a list of	35	20/01/2022	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	32	
write a Python program to read a file line by line and store it into a list. Write a Python program to read each row from a given csv file and print a list of			COURSE OUTCOME 534		
37 03/02/2022 from a given csv file and print a list of	36	03/02/2022		34	
	37	03/02/2022	from a given csv file and print a list of	34	

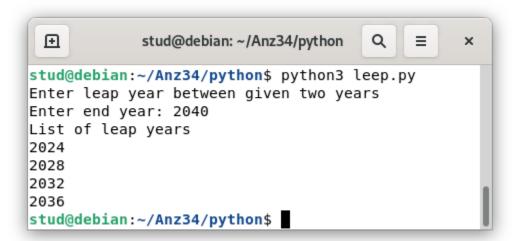
COURSE OUTCOME 1

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=2021
endyear=int(input("Enter end year")) print("list of leap years")
for year in
    range(startyear,endyear
    ): if(0==year%4):
        print(year)
```

Output



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

Source code

list=[22,-56,8,-5,7,14]

```
for num in list:
     if num > = 0:
      print(num)
  Output
               stud@debian: ~/Anz34/python
 ∄
                                                            ×
stud@debian:~/Anz34/python$ python3 col3a.py
8
7
14
stud@debian:~/Anz34/python$
 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
     Enter range:6
     4
     16
     25
     36
 c. Form a list of vowels selected from a given word.
    Source code
    s=input("Enter a string: ")
    list=[]
```

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

```
Enter a string: hallo vowels in the list are: ['a', 'o']
```

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

Source code

```
print("String: Hallo")
print("Ordinal Values")
for i in 'H','a','l','l','o':
    x=ord(i)
    print(x)
```

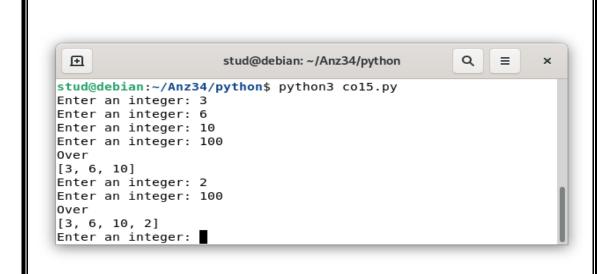
Output

```
String: Hallo
Ordinal Values
72
97
108
108
```

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: ~/Anz34/python
                                                                 Q
                                                                       ≣
       ∄
                                                                              X
      Enter a line of text:happy be happy
      happy
      be
                 1
      stud@debian:~/Anz34/python$ gedit col4.py
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)
    Output
```



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

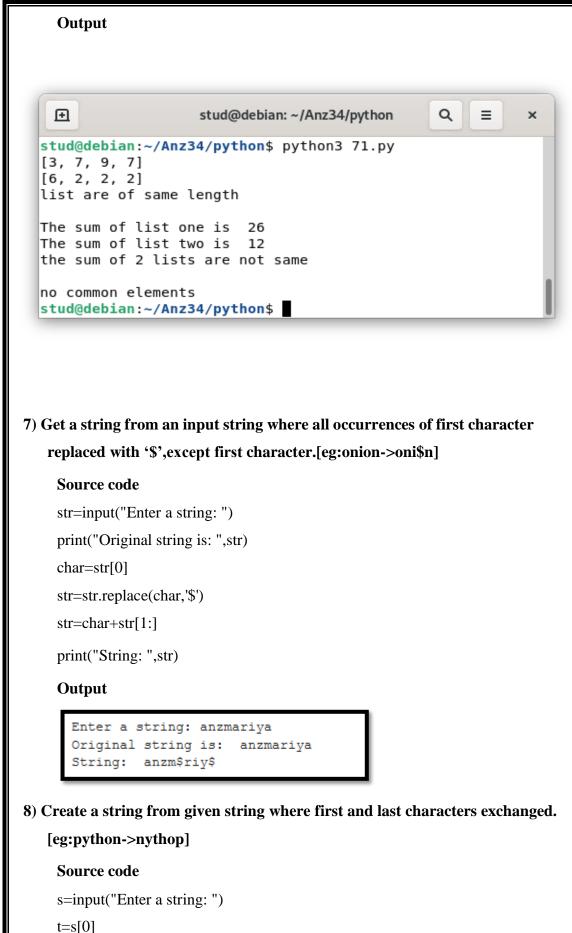
Source code

Output

```
Elements in the list are:
['anz', 'mariya', 'anju']
count of 'a' is: 4
```

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

```
Source code
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[j]
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])
```



```
t1=s[-1]
    n=len(s)
    ns=t1+s[1:n-1]+t
    print(ns)
    Output
      Enter a string: python
      nythop
9) Accept the radius from the user and find the area of the circle.
    Source code
    r=int(input('Enter the radius: '))
    A=3.14*r*r
    print(A)
    Output
    ⊞
                        stud@debian: ~/Anz34/python
                                                         Q
                                                                      ×
  stud@debian:~/Anz34/python$ gedit coll0.py
  stud@debian:~/Anz34/python$ python3 coll0.py
  Enter the radius: 3
  28.25999999999998
  stud@debian:~/Anz34/python$
10) Find the biggest of 3 numbers
    Source code
    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:
     print(b)
    if c>a and c>b:
     print(c)
```

```
Enter first number:5
Enter second number:7
Enter third number:11
```

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



12) Create a list of colors from comma-separated color names entered by user.

Display first and last 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])
Output
```

```
Enter color names:yellow,blue,green,red
['yellow', 'blue', 'green', 'red']
first color: yellow Last color: red
```

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

```
Enter the number:5
5 + 5 * 5 + 5 * 5 * 5 = 615
```

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

Source code

```
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)
```

Output

```
['red', 'green', 'blue', 'yellow', 'black']
['red', 'green', 'yellow']
Colors that are not in 11:
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
                                                        Q
    ⊞
                       stud@debian: ~/Anz34/python
                                                              ▤
                                                                     ×
      coll6.py
  NameError: name 'coll6' is not defined
  stud@debian:~/Anz34/python$ python3 coll6.py
  enter string 1:mariya
  enter string 2:rose
  rariya mose
  stud@debian:~/Anz34/python$
16) Sort dictionary in ascending and descending order.
   Source code
   d1={"a":1,"c":3,"d":2,"b":4}
   l=list(d1.items())
   print(l)
   1.sort()
   print("Ascending order is\n",l)
   l=list(d1.items())
   l.sort(reverse=True)
   print("Descending order is\n",l)
   Output
```

```
[('a', 1), ('c', 3), ('d', 2), ('b', 4)]
Ascending order is
[('a', 1), ('b', 4), ('c', 3), ('d', 2)]
Descending order is
[('d', 2), ('c', 3), ('b', 4), ('a', 1)]
```

17) Merge two dictionaries.

Source code

```
D1={"Name":"Anz mariya","Age":"22"}

print("Directory 1",D1)

D2={"Gender":"Female","Qualification":"BCA"}

print("Directory 2",D2)

D1.update(D2)

print("After merging...")

print(D1)
```

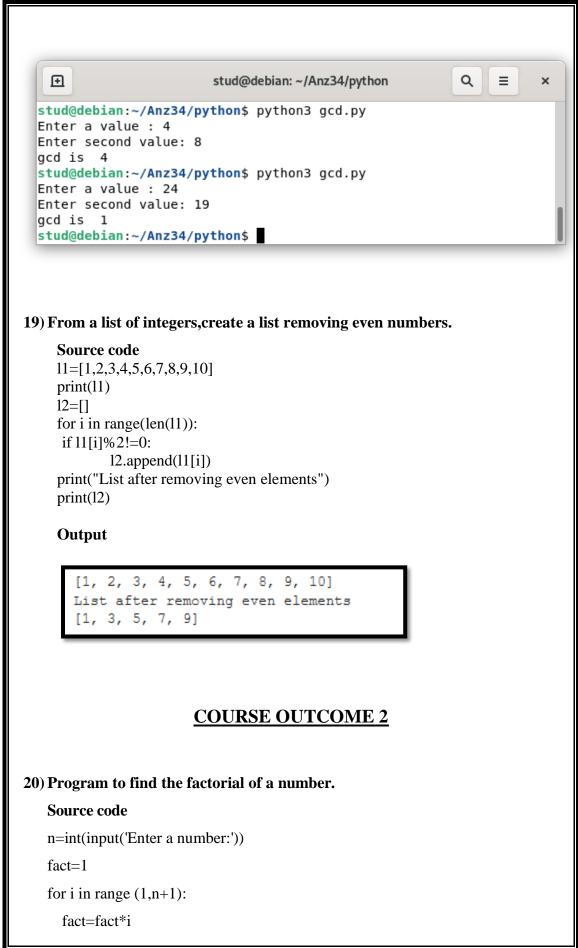
Output

```
Directory 1 {'Name': 'Anz mariya', 'Age': '22'}
Directory 2 {'Gender': 'Female', 'Qualification': 'BCA'}
After merging...
{'Name': 'Anz mariya', 'Age': '22', 'Gender': 'Female', 'Qualification': 'BCA'}
```

18) Find gcd of 2 numbers

Source code

Output



print(fact)

Output

```
Enter a number:5
120
Enter a number:4
24
```

21) Generate fibonacci series of N terms.

Source code

Output

```
Enter a limit:5
0
1
2
3
```

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

Source code

list=[2,8,9,34,25]

```
print("List elements are:",list)
sum=0
for i in list:
         sum=sum+i
print("The sum of list elements is:",sum)
Output

List elements are: [2, 8, 9, 34, 25]
The sum of list elements is: 78
```

23) 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)
```

```
68
78
80
92
[4624, 6084, 6400, 8464]
```

24) Display the given pyramid with step number accepted from user.

Source code

```
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

```
Enter a number:4

1
2 4
3 6 9
4 8 12 16
```

25) Count the number of characters (character frequency) in a string.

```
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)
```

```
Enter a string:welcome

w : 1
e : 2
l : 1
c : 1
o : 1
m : 1
```

26) 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

```
Enter a string:beautifuly beautifulying
```

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

```
lis=[]
n=int(input("Enter the range:"))
print("Enter the words:")
```

```
Enter the range:5
Enter the words:
anz
mariya
davis
bindu
alan
Length of longest word is 6
```

28) Construct following pattern using nested loop.

Source code

for i in range(1,6):

29) 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

```
Enter a number:8
Factors are
1
2
4
8
```

COURSE OUTCOME 3

30) 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

```
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))
```

Output			
Command Prompt		- 🗆	
(c) Microsoft Corporation. All rights reserved.			
C:\Users\ANZ>D:			
D:\>cd python			
D:\python>md graphics			
D:\python>cd graphics			
D:\python\graphics>notepadinitpy			
D:\python\graphics>notepad rectangle.py			
D:\python\graphics>notepad circle.py			
D:\python\graphics>md tdgraphics			
D:\python\graphics>cd tdgraphics			
D:\python\graphics\tdgraphics>notepadintpy			
D:\python\graphics\tdgraphics>notepad cuboid.py			
D:\python\graphics\tdgraphics>notepad cubord.py D:\python\graphics\tdgraphics>notepad sphere.py			
D:\python\graphics\tdgraphics>cd			

```
Command Prompt
D:\python\graphics\tdgraphics>notepad sphere.py
D:\python\graphics\tdgraphics>cd ...
D:\python\graphics>cd ..
D:\python>notepad drivers.py
D:\python>python drivers.py
Area of a circle with radius 10 is : 314.1592653589793
Permeter of a circle with radius 10 is 62.83185307179586
Area of a Rectangle with length and width 10 is : 100
Permeter of a Rectangle with length and width 10 is : 40
Area of a cuboid with length, width, height 10 is: 600
Volume of a cuboid with length,width,height 10 is : 1000
Area of a spere with radius 10 is : 1256.6370614359173
Permeter of a spere with radius 10 is 62.83185307179586
D:\python>
```

COURSE OUTCOME 4

31) 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):

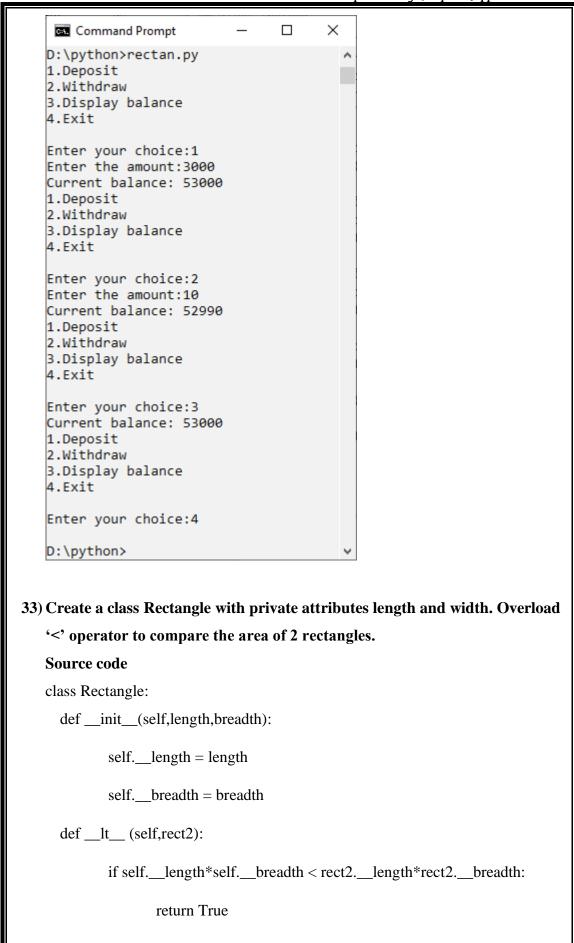
```
return self.length * self.breadth
  def perimeter(self):
          return 2*(self.length + self.breadth)
l=int(input("Enter length of rectangle1: "))
b=int(input("Enter breadth of rectangle1: "))
rect1 = Rectangle(l,b)
a1=rect1.area()
p1=rect1.perimeter()
print("Area:",a1)
print("Perimeter:",p1)
l=int(input("Enter length of rectangle2: "))
b=int(input("Enter breadth of rectangle2: "))
rect2 = Rectangle(1,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
```

```
Enter length of rectangle1: 8
Enter breadth of rectangle1: 6
Area: 48
Perimeter: 28
Enter length of rectangle2: 6
Enter breadth of rectangle2: 4
Area: 24
Perimeter: 20
First rectangle is larger
```

32) 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.

```
class bank:
def __init__(self,acc_no,name,acc_type,bal):
         self.acc_no=acc_no
         self.name=name
         self.acc_type=acc_type
         self.bal=bal
  def deposit(self):
         self.bal=self.bal+y
         return self.bal
  def withdraw(self):
         return self.bal-y
  def display_balance(self):
         return self.bal
acc1=bank("b11","Ann","Savings",50000)
while(1):
  print("1.Deposit\n2.Withdraw\n3.Display balance\n4.Exit\n")
```

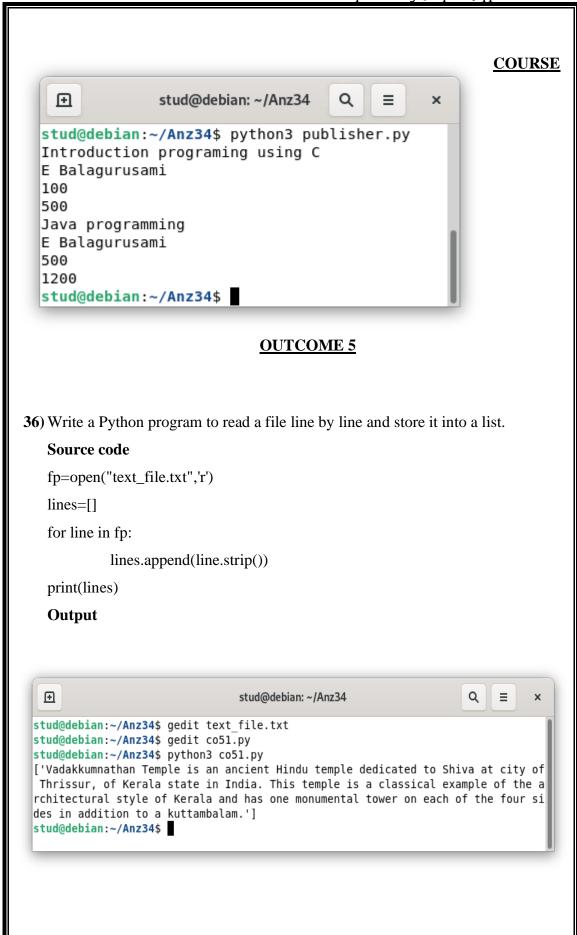
```
ch=int(input("Enter your choice:"))
  if ch==1:
         amt=int(input("Enter the amount:"))
         b=acc1.deposit(amt)
         print("Current balance:",b)
  elif ch==2:
         amt=int(input("Enter the amount:"))
         b=acc1.withdraw(amt)
         print("Current balance:",b)
  elif ch==3:
         cb=acc1.display_balance()
         print("Current balance:",cb)
  elif ch==4:
         exit(1)
  else:
         print("Invalid choice")
Output
```



```
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
    ⊞
                          stud@debian: ~/Anz34
  stud@debian:~/Anz34$ python3 rect.py
  Enter length of rectangle1: 3
  Enter breadth of rectangle1: 6
  Enter length of rectangle2: 1
  Enter breadth of rectangle2: 4
  First rectangle is larger
  stud@debian:~/Anz34$
34) 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(3,35,56)
   t2=Time(4,20,3)
   print('Time 1: 3:35:56')
   print('Time 2: 4:20:3')
   print('Adding......')
   t1+t2
   Output
    Command Prompt
                                        X
   D:\python>CO4_4.py
   Time 1: 3:35:56
   Time 2: 4:20:3
   Adding.....
   7 : 55 : 59
   D:\python>
35) 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
```



37) 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) Output ⊕ stud@debian: ~/Anz34 Q \equiv X stud@debian:~/Anz34\$ python3 co52.py ['name', 'batch'] ['anz', 'A'] ['appu', 'B'] ['ann', 'C'] stud@debian:~/Anz34\$