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

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577



'FOCUS ON EXCELLENCE'

20MCA131 PROGRAMMING LAB LABORATORY RECORD

Name: ANAMIKA CP

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: SEMESTER -1 A Roll No: 19

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

 $(FISAT)^{TM}$

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577



'FOCUS ON EXCELLENCE'

<u>CERTIFICATE</u>					
This is to certify that this is a Bonafide record of the ANAMIKA C P in the 20MCA131 PROGRAMMING partial fulfillment for the award of the Master Of Computer academic year 2021-2022.	Laboratory towards the				
Signature of Staff in Charge Name: Date: Date of University practical examination	Signature of H.O.D Name:				
Signature of Internal Examiner	Signature of External Examiner				

CONTENTS

SI No	Date of Experiment	Name of Experiment	Page No:	Signature of Staff –In – Charge:
1		Display future leap years from current leap year to a final year entered by user	7	
2		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	8-10	
3		Count the occurrences of each word in a line of text	11	
4		Prompt the user for a list of integers. For all values greater than 100, store 'over' instead	12	
5		Store a list of first names. Count the occurrences of 'a' within the list	13	
6		Enter 2 list of integers. Check (a) Whether list are of same length (b) whether list sums to same value (c) whether any value occur in both	14-15	
7		Get a string from an input string where all occurrences of first character replaced with '\$', except first character. [eg: onion->oni\$n]	16	
8		Create a string from given string where first and last characters exchanged. [eg: python->nythop]	17	
9		Accept the radius from user and find area of circle	18	
10		Find biggest of 3 numbers entered	19	
11		Accept a file name from user and print extension of that	20	

12	Create a list of colors from comma- separated color names entered by user Display first and last colors		
13	Accept an integer n and compute n+nn+nnn	22	
14	Print out all colors from color-list1 not contained in color-list2	23	
15	Create a single string separated with space from two strings by swapping the character at position 1		
16	Sort dictionary in ascending and descending order	25	
17	Merge two dictionaries	26	
18	Find gcd of 2 numbers	27	
19	From a list of integers, create a list removing even numbers	28	
20	Program to find the factorial of a number	29	
21	Generate Fibonacci series of N terms	30	
22	Find the sum of all items in a list	31	
23	Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square		
24	Display the given pyramid with step number accepted from the user	34	
25	Count the number of characters (character frequency) in a string	35	
26	Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'	36	
27	Accept a list of words and return length of longest word	37	
28	Construct following pattern using nested loop	38-39	

29	Generate all factors of a number	40	
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)	41-43	
31	Create Rectangle class with attributes length and breadth and methods to find area and perimeter. Compare two Rectangle objects by their area		
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	46-47	
33	Create a class Rectangle with private attributes length and width. Overload '<' operator to compare the area of two rectangles	48-49	
34	Create a class Time with private attributes hour, minute and second. Overload '-' operator to find sum of two time	50	
35	Create a class Publisher(name). Derive a class Book from Publisher with attributes title and author. Derive class Python from Book with attributes price and number_of_pages. Write a program that displays information about a Python book. Use base class constructor invocation and method overriding	51-52	
36	Write a Python program to read a file line by line and store it into a list	53	
37	Write a Python program to read each row from a given csv file and print a list of strings	54	

<u>CO1</u>

1.

Aim:

Display future leap years from current leap year to a final year entered by user.

Input

```
current_year=int(input("Enter the current year:"))
final_year=int(input("Enter the final year:"))
for year in range(current_year,final_year):
if(year%400==0)or(year%100!=0)and(year%4==0):
print(year)
```

```
user@user-desktop:~/anamika$ python3 leap.py
Enter the current year:2004
Enter the final year:2020
2004
2008
2012
2016
```

2. List comprehensions: (a) Aim: Generate positive list of numbers from a given list of integers. Input list=[10,-5,4,-8,35,67,-22] for num in list: if num>0: print(num) **Output** user@user-desktop:~/anamika\$ python3 positive.py 10 35 (b) Aim: Square of N numbers Input lst=[] n=int(input("Enter a number:")) for num in range(1,n+1): num=num*num lst.append(num) print(lst)

```
Output
user@user-desktop:~/anamika$ python3 squarenumbers.py
Enter a number:5
 [1, 4, 9, 16, 25]
(c)
Aim:
Form a list of vowels selected from a given word
Input
L=[]
s="India is my country"
for i in s:
if i in ("aeiouAEIOU"):
L.append(i)
print(L)
Output
user@user-desktop:~/anamika$ python3 vowels.py
['I', 'i', 'a', 'i', 'o', 'u']
(d)
Aim:
List ordinal value of each element of a word
Input
ordinal=input("Enter a word:")
print("The ASCII value of the letters in the word is")
for letter in ordinal:
n=ord(letter)
```

print(n)

```
user@user-desktop:~/anamika$ python3 ordinal.py
Enter a word:anamika
The ASCII value of the letters in the word is
97
110
97
109
105
107
```

```
3.
Aim:
Count the occurrences of each word in a line of text.
Input
list1=[]
list2=[]
x=input("Enter a string:")
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
user@user-desktop:~/anamika$ python3 occurrence.py
Enter a string:hello good night hello good
 hello
              2
good
night
```

Aim:

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

Input

```
lst=[]
n=int(input("Enter an integer:"))
print("Integer numbers are")
for i in range(0,n):
j=int(input())
if j>100:
lst.append("over")
else:
lst.append(j)
```

Output

print(lst)

```
user@user-desktop:~/anamika$ python3 over.py
Enter an integer:4
Integer numbers are
120
30
165
45
['over', 30, 'over', 45]
```

5. Aim: Store a list of first names. Count the occurrences of 'a' within the list. Input list1=["anamika","anagha","athira"] count=0 for word in list1: for letter in word: if letter=="a": count = count + 1print("The occurences of 'a' within the list is "+str(count)) Output user@user-desktop:~/anamika\$ python3 firstnames.py
The occurences of 'a' within the list is 8

Aim:

Enter 2 list of integers. Check (a) Whether list are of same length (b) whether list sums to same value (c) whether any value occur in both.

Input

```
11=[2,4,6,8,10]
12=[3,5,7,9,10]
print(11)
print(12)
if len(11) == len(12):
print("Lists are of same length")
else:
print("Lists are of different length")
s1=0
s2=0
for i in range(len(11)):
s1=s1+l1[i]
print("Sum of first list is",s1)
for j in range(len(12)):
s2=s2+12[j]
print("Sum of second list is",s2)
if (s1==s2):
print("Sum of lists is same")
else:
print("Sum of lists are different")
for i in 11:
if i in 12:
print(i,"occurs in both list")
```

```
user@user-desktop:~/anamika$ python3 same.py
[2, 4, 6, 8, 10]
[3, 5, 7, 9, 10]
Lists are of same length
Sum of first list is 30
Sum of second list is 34
Sum of lists are different
10 occurs in both list
```

Aim:

Get a string from an input string where all occurrences of first character replaced with '\$', except first character. [eg: onion->oni\$n]

Input

```
str1=input("Enter a string:")
print("Original string:",str1)
char=str1[0]
str1=str1.replace(char,'$')
str1=char+str1[1:]
print("String:",str1)
```

```
user@user-desktop:~/anamika$ python3 string.py
Enter a string:onion
Original string: onion
String: oni$n
```

8. Aim: Create a string from given string where first and last characters exchanged. [eg: python->nythop] Input s="python" t=s[0]t1=s[-1]n=len(s)rs=t1+s[1:n-1]+tprint(rs) Output user@user-desktop:~/anamika\$ python3 reverseletter.py nythop

9. Aim: Accept the radius from user and find area of circle. Input r=int(input("Enter the radius:")) a=3.14*r*r print("Area of circle is",a) Output user@user-desktop:~/anamika\$ python3 areaofcircle.py Enter the radius:4 Area of circle is 50.24

```
10.
Aim:
Find biggest of 3 numbers entered.
Input
a=int(input("Enter the first number:"))
b=int(input("Enter the second number:"))
c=int(input("Enter the third number:"))
if a>b:
if a>c:
print(a)
else:
print(c)
else:
if b>c:
print(b)
else:
print(c)
Output
user@user-desktop:~/anamika$ python3 biggest.py
Enter the first number:9
Enter the second number:34
Enter the third number:12
34
```

11. Aim: Accept a file name from user and print extension of that. Input import os a=input("Enter the file name:") print("The extension of file",a,"is",os.path.splitext(a)) Output user@user-desktop:~/anamika\$ python3 extension.py Enter the file name:swap.py
The extension of file swap.py_is ('swap', '.py')

Aim:

Create a list of colors from comma-separated color names entered by user. Display first and last colors.

Input

```
list1=[]
string=input("Enter colors separated by comma:\n")
for i in string.split(","):
list1.append(i)
print("First and last colors in the list are",list1[0],"and",list1[-1])
```

```
user@user-desktop:~/anamika$ python3 13.py
Enter colors separated by comma:
Red,Yellow,Green,Blue
First and last colors in the list are Red and Blue
```

13.Aim:Accept an integer n and compute n+nn+nnn.

Input

```
x=int(input("Enter an integer:"))
n1=str(x)
n2=n1+n1
n3=n2+n1
result=int(n1)+int(n2)+int(n3)
print(result)
```

```
user@user-desktop:~/anamika$ python3 14.py
Enter an integer:4
492
```

Aim:

Print out all colors from color-list1 not contained in color-list2.

Input

```
11=["red","green","blue","maroon","peach","orange"]
12=["white","green","maroon","black"]
print(11)
print(12)
for i in 11:
  if i not in 12:
  print(i)
```

```
user@user-desktop:~/anamika$ python3 colourlist.py
['red', 'green', 'blue', 'maroon', 'peach', 'orange']
['white', 'green', 'maroon', 'black']
red
blue
peach
orange
```

Aim:

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

Input

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

```
user@user-desktop:~/anamika$ python3 swap.py
Enter first string:Anamika
Enter second string:Pradeep
Pnamika Aradeep
```

Aim:

Sort dictionary in ascending and descending order.

Input

```
dict1={"a":1,"c":3,"d":2,"b":4}
l=list(dict1.items())
print(l)
l.sort()
print("Ascending order is\n",l)
l=list(dict1.items())
l.sort(reverse=True)
print("Descending order is\n",l)
```

```
user@user-desktop:~/anamika$ python3 sortdic.py
[('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.
Aim:
Merge two dictionaries.
Input
dict1 = \{"Name": "Athidhi", "Age": 25\}
dict2 = \{ "Gender": "F", "Qualification": "PG" \}
dict1.update(dict2)
print(dict1)
Output
user@user-desktop:~/anamika$ python3 mergedic.py
{'Name': 'Athidhi', 'Age': 25, 'Gender': 'F', 'Qualification': 'PG'}
```

```
18.
Aim:
Find gcd of 2 numbers.
Input
x=int(input("Enter first number:"))
y=int(input("Enter second number:"))
if x>y:
s=y
else:
s=x
for i in range(1,s+1):
if(x\%i==0)and(y\%i==0):
hcf=i
print(hcf)
Output
```

```
user@user-desktop:~/anamika$ python3 gcd.py
Enter first number:12
Enter second number:4
4
```

19. Aim: From a list of integers, create a list removing even numbers. Input 11=[1,2,3,4,5,6] 12=[] for i in 11: if i%2!=0: 12.append(i) print(12) Output user@user-desktop:~/anamika\$ python3 evenremove.py [1, 3, 5]

<u>CO2</u>

1.

Aim:

Program to find the factorial of a number.

Input

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

```
user@user-desktop:~/anamika$ python3 factorial.py
Enter a number:5
120
```

```
2.
Aim:
Generate Fibonacci series of N terms.
Input
n=int(input("Enter a number:"))
f1=0
f2=1
print(f1)
print(f2)
for i in range(0,n-2):
f3 = f1 + f2
print(f3)
f1=f2
f2=f3
Output
user@user-desktop:~/anamika$ python3 fibonacci.py
Enter a number:7
```

3. Aim: Find the sum of all items in a list. Input list1=[1,2,3,4,5] sum=0 for i in list1: sum=sum+i print(sum) Output user@user-desktop:~/anamika\$ python3 listsum.py 15

Aim:

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

Input

```
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 user@user-desktop:~/anamika\$ python3 perfectsq.py 68 78 80 92 [4624, 6084, 6400, 8464]

```
5.

Aim:

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

Eg: N=4

1

2 4

3 6 9

4 8 12 16

Input

n=int(input("Enter a number:"))

for i in range(1,n+1):

for j in range(i,(i*i)+1,i):

print(j,"\t",end="")

print("\n")
```

```
user@user-desktop:~/anamika$ python3 stepnumber.py
Enter a number:5
1
2     4
3     6     9
4     8     12     16
5     10     15     20     25
```

```
6.
Aim:
Count the number of characters (character frequency) in a string.
Input
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)
```

Aim:

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

Input

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

```
user@user-desktop:~/anamika$ python3 ing.py
Enter a string:subtract
subtracting
```

```
8.

Aim:

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

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

lis.append(input(""))

for i in range(0,n):

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))

```
user@user-desktop:~/anamika$ python3 longest.py
Enter the range:4
Enter the words:
good
bad
gloomy
upset
Length of longest word is 6
```

```
9.
Aim:
Construct following pattern using nested loop.
Input
k='*'
for i in range(1,6):
for j in range(1,i+1):
print(k,end="")
print("\n")
for i in range(4,0,-1):
for j in range(1,i+1):
print(k,end="")
print("\n")
```

```
user@user-desktop:~/anamika$ python3 starpyramid.py
* *
* * *
* * * *
* * * *
* * * *
* * * *
* * *
* * *
```

```
10. Aim:
```

Generate all factors of a number.

Input

```
n=int(input("Enter a number:"))
print("Factors are")
for i in range(1,n+1):
if(n%i==0):
print(i)
```

```
user@user-desktop:~/anamika$ python3 factor.py
Enter a number:12
Factors are
1
2
3
4
6
12
```

CO₃

1.

Aim:

Create a package graphics with modules rectangle, circle and sub-package 3Dgraphics 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)

Input

```
circle.py
```

```
from math import pi
def area_circle(radius):
       return pi*radius*radius
def perimeter_circle(radius):
       return 2*pi*radius
rectangle.py
def area_rec(length,width):
       return length*width
def perimeter_rec(length,width):
       return 2*(length+width)
cuboid.py
def area_cuboid(l,b,h):
       return 2*(1*h + b*h + 1*b)
 def volume_cuboid(l,b,h):
```

return 1*b*h

```
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
import Graphics
from Graphics import circle, rectangle
from Graphics.threedgraphics import cuboid,sphere
from Graphics.circle import *
print("Area of the Circle : ",circle.area_circle(12))
print("Perimeter of the Circle : ",circle.perimeter_circle(12))
print("\n")
print("Area of the Rectangle : ",rectangle.area_rec(14,8))
print("Perimeter of the Rectangle : ",rectangle.perimeter_rec(14,8))
print("\n")
print("Area of the Cuboid : ",cuboid.area_cuboid(8,8,8))
print("Volume of the Cuboid : ",cuboid.volume_cuboid(8,8,8))
print("\n")
print("Area of the Sphere : ",sphere.area_sphere(6))
print("Perimeter of the Sphere : ",sphere.perimeter_sphere(6))
```

```
C:\Users\useresq\Desktop\Anamika>cd Python

C:\Users\useresq\Desktop\Anamika>Python>md Graphics

C:\Users\useresq\Desktop\Anamika\Python\cd Graphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad __init__.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad circle.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad rectangle.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>md threedgraphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics>cd threedgraphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad __init__.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad cuboid.p

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad sphere.p

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad sphere.p

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad ...

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>cd ...
```

```
C:\Users\useresq\Desktop\Anamika\Python\python graphics.py
Area of the Circle : 452.3893421169302
Perimeter of the Circle : 75.39822368615503

Area of the Rectangle : 112
Perimeter of the Rectangle : 44

Area of the Cuboid : 384
Volume of the Cuboid : 512

Area of the Sphere : 452.3893421169302
Perimeter of the Sphere : 37.69911184307752
```

CO4

1.

Aim:

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

Input

```
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)
r1=Rectangle(6,4)
r2=Rectangle(10,7)
x=r1.area()
y=r2.area()
z=r1.perimeter()
w=r2.perimeter()
print("Area of rectangle1 is",x)
print("Area of rectangle2 is",y)
print("Perimeter of rectangle1 is",z)
print("Perimeter of rectangle2 is",w)
if(x>y):
       print("Area of rectangle 1 is larger")
else:
               print("Area of rectangle 2 is larger")
```

Output user@user-desktop:~/anamika\$ python3 rectangle.py Area of rectangle1 is 24 Area of rectangle2 is 70 Perimeter of rectangle1 is 20 Perimeter of rectangle2 is 34 Rectangle 2 is larger

Aim:

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.

```
Input
class bank:
       def __init__(self,acc_no,name,acc_type,balance):
              self.acc_no=acc_no
              self.name=name
              self.type=acc_type
              self.balance=balance
       def withdrawal(self,x):
              self.balance=self.balance-x
              print("Balance amount after withdrawal:",self.balance)
       def deposit(self,y):
              self.balance=self.balance+y
              print("Balance amount after deposit:",self.balance)
       def display(self):
              print("Account Number:",self.acc_no)
              print("Account Name:",self.name)
              print("Account Type:",self.type)
              print("Account Balance:",self.balance)
account1=bank(1234,"Anu","Savings",25000)
account2=bank(3456,"Ammu","Savings",5000)
account3=bank(7890,"Anju","Savings",15000)
account4=bank(4587,"Athira","Savings",4000)
```

```
account1.deposit(10000)

account2.deposit(5000)

account2.withdrawal(1000)

account3.deposit(15000)

account3.withdrawal(3000)

account4.deposit(20000)

account4.withdrawal(10000)
```

```
user@user-desktop:~/anamika$ python3 bank.py
Balance amount after deposit: 35000
Balance amount after withdrawal: 33000
Balance amount after deposit: 10000
Balance amount after withdrawal: 9000
Balance amount after deposit: 30000
Balance amount after withdrawal: 27000
Balance amount after deposit: 24000
Balance amount after withdrawal: 14000
```

3. **Aim**:

Create a class Rectangle with private attributes length and width. Overload '<'

```
operator to compare the area of two rectangles.
Input
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)
       def __lt__(self,r2):
               if(self.length*self.breadth<r2.length*r2.breadth):
                       return True
               else:
                       return False
r1=Rectangle(10,6)
r2=Rectangle(6,4)
x=r1.area()
y=r2.area()
z=r1.perimeter()
w=r2.perimeter()
print("Area of rectangle 1 is",x)
print("Area of rectangle 2 is",y)
print("Perimeter of rectangle 1 is",z)
print("Perimeter of rectangle 2 is",w)
if(r1<r2):
       print("Rectangle 1 is smaller")
else:
       print("Rectangle 2 is smaller")
```

```
user@user-desktop:~/anamika$ python3 rectangle1.py
Area of rectangle 1 is 60
Area of rectangle 2 is 24
Perimeter of rectangle 1 is 32
Perimeter of rectangle 2 is 20
Area of Rectangle 2 is smaller
```

Aim:

Create a class Time with private attributes hour, minute and second. Overload '-' operator to find sum of two time.

Input

```
class Time:
```

```
def __init__(self,hour,minute,second):
    self.__hour=hour
    self.__minute=minute
    self.__second=second

def __add__(self,t2):
    a=self.__hour=t1.__hour+t2.__hour
    b=self.__minute=t1.__minute+t2.__minute
    c=self.__second=t1.__second+t2.__second
    print("The Sum of Two Times is",a,b,c)

t1=Time(2,40,15)

t2=Time(5,12,20)

t3=t1+t2
```

```
user@user-desktop:~/anamika$ python3 time.py
The Sum of Two Times is 7 52 35
```

Aim:

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

```
Input
class Publisher:
       def __init__(self,name):
               self.name=name
class Book(Publisher):
       def __init__(self,name,title,author):
               super().__init__(name)
               self.title=title
               self.author=author
       def display(self):
              print("Name:",self.name)
               print("Title:",self.title)
              print("Author:",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 display(self):
               print("Name:",self.name)
```

```
print("Title:",self.title)
print("Author:",self.author)
print("Price:",self.price)

print("Number of Pages:",self.no_of_pages)

p1=Python("Khanna Publishing House","Taming Python","Jeeva Jose",200,500)
p1.display()
p2=Book("ABC Publications","Python For Everybody","Charles Severence")
p2.display()
```

user@user-desktop:~/anamika\$ python3 book.py

Name: Khanna Publishing House

Title: Taming Python Author: Jeeva Jose

Price: 200

Number of Pages: 500 Name: ABC Publications

Title: Python For Everybody Author: Charles Severence

CO5

1.

Aim:

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

Input

Output

```
user@user-desktop:~/anamika$ python3 co51.py
India
```

Kerala

Aim:

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

Input

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

```
user@user-desktop:~/anamika$ python3 co53.py
['Name', 'Age', 'Profession']
['James', '38', 'Doctor']
['Paul', '29', 'Engineer']
['Ancy', '36', 'Professor']
['Rincy', '27', 'Manager']
['John', '35', 'Programmer']
['Mariya', '24', 'Accountant']
```