FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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FOCUS ON EXCELLENCE

20MCA131 PROGRAMMING LAB LABORATORY RECORD

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Semester: 1 Batch: A Roll No: 14

MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

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CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ***ALEESHA MARTIN(FIT21MCA-2014)*** *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

Name:

Signature of H OD

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

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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

```
stud@debian:~/aleesha_14$ python3 r1.py
print leap year between two given years
Enter end year2025
list of leap years
2024
stud@debian:~/aleesha_14$
```

2) List comprehensions:

a. Generate positive list of numbers from a given list ofintegers.

Source code

```
list=[-11,4,8,-34,10,14]
print("Elements in the list are:",list) print("Positive numbers in the list")
for num in list:
    if num>=0:
            print(num)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Elements in the list are: [-11, 4, 8, -34, 10, 14]
Positive numbers in the list
4
8
10
14
stud@debian:~/aleesha_14$
```

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:~/aleesha_14$ python3 r1.py
Enter range:5
1
4
9
16
25
stud@debian:~/aleesha_14$
```

c. Form a list of vowels selected from a givenword.

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)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter a string: anu
vowels in the list are:
['a', 'u']
stud@debian:~/aleesha_14$
```

d. List ordinal values of each element of aword.

Source code

```
print("String: Welcome")
print("Ordinal Values")
for i in 'W','e','l','c','o','m','e':
    x=ord(i)
    print(x)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
String: Welcome
Ordinal Values
87
101
108
99
111
109
101
stud@debian:~/aleesha_14$
```

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

Source code

```
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:~/aleesha_14$ python3 r1.py
Enter a line of text:we are we
we      2
are     1
stud@debian:~/aleesha_14$
```

4) Prompt the user for a list of integers. For all values greaterthan 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

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter an integer: 1
Enter an integer: 1
Enter an integer: 2
Enter an integer: 1001
[1, 1, 2, 'over']
```

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

Source code

```
list=['ann','mariya','anju'] 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)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Elements in the list are:
['ann', 'mariya', 'anju']
count of 'a' is: 4
stud@debian:~/aleesha_14$
```

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 inboth.

Source code

```
l1=[1,2,3,4]
l2=[1,3,2]
print("List 1",l1)
print("List 2",l2)
x=len(l1)
y=len(l2)
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+l2[j]
print("Sum of elememts 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 l1[i]==l2[j]:
                print(l1[i])
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
List 1 [1, 2, 3, 4]
List 2 [1, 3, 2]
Length of lists are different
Sum of elements of List1: 10
Sum of elememts of List2: 6
Sum of list elements is not same
Common elements are:
1
2
3
stud@debian:~/aleesha 14$
```

7) Get a string from a input string where all occurrence of first character replacedwith '$',except firstcharacter.[eg:onion->oni$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:~/aleesha_14$ python3 r1.py
Enter a string: ONION
Original string is:  ONION
String:  ONI$N
stud@debian:~/aleesha_14$
```

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:~/aleesha_14$ python3 r1.py
Enter a string: PYTHON
NYTHOP
stud@debian:~/aleesha_14$
```

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

Source code

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

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter the radius: 10
314.0
stud@debian:~/aleesha_14$
```

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)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter first number:10
Enter second number:12
Enter third number:23
23
stud@debian:~/aleesha_14$
```

11) Accept a file name from user and print extension ofthat.

Source code

```
import os
a=input("Enter file name:")
print("The extension of file",a,"is",os.path.splitext(a))
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter file name:EXAM.XML
The extension of file EXAM.XML is ('EXAM', '.XML')
stud@debian:~/aleesha_14$
```

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

Source code

```
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

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter color names:yellow,red,pink,blue
['yellow', 'red', 'pink', 'blue']
first color: yellow Last color: blue
stud@debian:~/aleesha_14$
```

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:~/aleesha_14$ python3 r1.py
Enter the number:2
2 + 2 * 2 + 2 * 2 * 2 = 246
stud@debian:~/aleesha_14$
```

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

Source code

```
l1=['red','green','blue','yellow','black']
l2=['red','green','yellow']
print(l1)
print(l2)
print("Colors that are not in l1:
")
for i in l1:
 if i not in l2:
        print(i)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
['red', 'green', 'blue', 'yellow', 'black']
['red', 'green', 'yellow']
Colors that are not in l1:
blue
black
stud@debian:~/aleesha_14$
```

15) Create a single string separated with space from two strings by swapping the character at position1.

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:~/aleesha_14$ python3 r1.py
Enter first string:brother
Enter second string:sister
srother bister
stud@debian:~/aleesha_14$
```

16) Sort dictionary in ascending and descending order.

Source code

```
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)
```

```
[('d', 2), ('c', 3), ('a', 1), ('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 twodictionaries.

Source code

```
D1={"Name":"Ann mariya","Age":"20"}
print("Directory 1",D1)
D2={"Gender":"Female","Qualification":"BCA"}
print("Directory 2",D2)
D1.update(D2)
print("After merging...")
print(D1)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Directory 1 {'Name': 'Arya', 'Age': '20'}
Directory 2 {'Gender': 'Female', 'Qualification': 'BCA'}
After merging...
{'Name': 'Arya', 'Age': '20', 'Gender': 'Female', 'Qualification': 'BCA'}
stud@debian:~/aleesha_14$
```

18) Find gcd of 2 numbers

Source code

```
a=int(input("Enter first number: "))
b=int(input("Enter first number: "))
x=min(a,b)
gcd=0
for i in range (1,x+1):
 if((a%x==0) and (b%x==0)):
        gcd=i
print("GCD is",i)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter first number: 12
Enter first number: 23
GCD is 12
stud@debian:~/aleesha_14$
```

19) From a list of integers, create a list removing evennumbers.

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)
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
List after removing even elements
[1, 3, 5, 7, 9]
stud@debian:~/aleesha_14$
```

COURSE OUTCOME 2

20) Program to find the factorial of anumber.

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:~/aleesha_14$ python3 r1.py
Enter a number:12
479001600
stud@debian:~/aleesha_14$
```

21) Generate fibonacci series of Nterms.

Source code

```
n=int(input('Enter a limit:'))
a=0
b=1
print(a)
print(b)
for i in range (2,n):
        c=a+b
        print(c)
        a=b
        b=c
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter a limit:12
0
1
1
2
3
5
8
13
21
34
55
89
stud@debian:~/aleesha_14$
```

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

Source code

```
list=[2,6,9,11,25]
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:~/aleesha_14$ python3 r1.py
List elements are: [2, 6, 9, 11, 25]
The sum of list elements is: 53
stud@debian:~/aleesha_14$
```

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

Source code

```
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:~/aleesha_14$ python3 r1.py
68
78
80
92
[4624, 6084, 6400, 8464]
stud@debian:~/aleesha_14$
```

24) Display the given pyramid with step number accepted fromuser.

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

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter a number:5


1

2 4

3 6 9

4 8 12 16

5 10 15 20 25

stud@debian:~/aleesha_14$
```

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

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:~/aleesha_14$ python3 r1.py
Enter a string:welcome
w       : 1
e       : 2
l       : 1
c       : 1
o       : 1
m       : 1
stud@debian:~/aleesha_14$
```

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

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter a string:dancing
dancingly
stud@debian:~/aleesha_14$
```

27) Accept a list of words and return length of longestword.

Source code

```
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:~/aleesha_14$ python3 r1.py
Enter the range:3
Enter the words:
hai
hello
bye
Length of longest word is 5
stud@debian:~/aleesha_14$
```

28) Construct following pattern using nestedloop.

```
*
* *
* * *
* * * *
* * * * *

* * * *

* * *
* *
*
```

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("\n")
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
*

* *

* * *

* * * *

* * * * *

* * * *

* * *

* *

*

stud@debian:~/aleesha_14$
```

29) Generate all factors of anumber.

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:~/aleesha_14$ python3 r1.py
Enter a number:12
Factors are
1
2
3
4
6
12
stud@debian:~/aleesha_14$
```

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

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

Output

```
stud@debian:~/aleesha_14$ mkdir graphics
stud@debian:~/aleesha_14$ cd graphics
stud@debian:~/aleesha_14/graphics$ gedit circle.py
stud@debian:~/aleesha_14/graphics$ gedit rectangle.py
stud@debian:~/aleesha_14/graphics$ mkdir tdgraphics
stud@debian:~/aleesha_14/graphics$ cd tdgraphics
stud@debian:~/aleesha_14/graphics/tdgraphics$ gedit cuboid.py
stud@debian:~/aleesha_14/graphics/tdgraphics$ gedit sphere.py
stud@debian:~/aleesha_14/graphics/tdgraphics$ cd ..
stud@debian:~/aleesha_14/graphics$ cd ..
stud@debian:~/aleesha_14$ gedit drive.py
stud@debian:~/aleesha_14$ python3 drive.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
```

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(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:~/aleesha_14$ python3 r1.py
Enter length of rectangle1: 12
Enter breadth of rectangle1: 2
Area: 24
Perimeter: 28
Enter length of rectangle2: 23
Enter breadth of rectangle2: 22
Area: 506
Perimeter: 90
Second rectangle is larger
stud@debian:~/aleesha_14$
```

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.

Source code

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

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
1.Deposit
2.Withdraw
3.Display balance
4.Exit

Enter your choice:2
Enter the amount:2000
Current balance: 48000
1.Deposit
2.Withdraw
3.Display balance
4.Exit

Enter your choice:3
Current balance: 50000
1.Deposit
2.Withdraw
3.Display balance
4.Exit

Enter your choice:4
stud@debian:~/aleesha_14$
```

33) 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

```
stud@debian:~/aleesha_14$ python3 r1.py
Enter length of rectangle1: 20
Enter breadth of rectangle1: 2
Enter length of rectangle2: 30
Enter breadth of rectangle2: 22
Second rectangle is larger
stud@debian:~/aleesha_14$
```

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(3,45,56)
t2=Time(4,20,3)
t1+t2
```

Output

```
Time 1: 3:35:56
Time 2: 4:20:3
Adding........
7 : 55 : 59
```

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","Javaprogramming","E Balagurusami",500,1200)
q.display3()
```

Output

```
stud@debian:~/aleesha_14$ python3 r1.py
Taming Python
jeeva jose
100
500
Java programming
E Balagurusami
500
1200
stud@debian:~/aleesha_14$
```

COURSE OUTCOME 5

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

Source code

```
fp=open("text_file.txt",'r')
lines=[]
for line in fp:
        lines.append(line.strip())
print(lines)
```

Output

```
stud@debian:~/aleesha_14$ gedit text_file.txt
stud@debian:~/aleesha_14$ python3 r1.py
["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. National parks like Eravikulam an
d Periyar, plus Wayanad and other sanctuaries, are home to elephants, langur mon
keys and tigers."]
stud@debian:~/aleesha_14$
```

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:~/aleesha_14$ python3 r1.py
['john', '30', 'Manager']
['Kevin', '30', 'Accountant']
['Rithik', '31', 'Staff']
stud@debian:~/aleesha_14$
```