FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

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ANGAMALY-683577



'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA131 - PROGRAMMING LAB

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Branch: MASTER OF COMPUTER APPLICATION

Semester: 1 Batch: 2021 A Roll No: 40

MARCH 2022

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

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University Exam.Reg. No: FIT21MCA-2040

CERTIFICATE

Certified that this is the Bonafede record of the Practical work done by Mr. **ASHNA SHERIN A M (FITMCA2040)** in the **20MCA131-PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022.

Date of University practical examination	•••••
Date:	
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Signature of Staff in Charge	Signature of H.O.D

Signature of External Signature of Internal Examiner 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("Enter leap year between given two 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

```
print leap year between two given years
Enter startyear2000
Enter end year2020
list of leap years
2000
2004
2008
2012
2016
```

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

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

```
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)
```

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

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

Source code

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

Output
stud@debian:~/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.

```
stud@debian:~/python$ python3 3.py
Enter a line of text:hiii hello
hiii    1
hello    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 the list.

```
list=['anu','sherin','ashna']
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:~/python$ python3 5.py
     Elements in the list are:
     ['anu', 'sherin', 'ashna']
     count of 'a' is: 3
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(11)
  print(12)
  flag=0
 #To check whether list are of same length
 if len(11) == len(12):
```

print("The sum of list two is ",sum2);

print("The sum of list one is ",sum1)

print('list are of same length\n')

print('list length is different\n')

#whether list sums to same value

sum1=sum1+i

for j in range (len(12)):

sum2=sum2+l2[j]

else:

sum1=0 sum2=0 for i in 11:

```
if sum1==sum2:
      print("the sum of 2 lists are same\n")
 else:
      print("the sum of 2 lists are not same\n")
 #whether any value occurs in both
 for i in 11:
      if i in 12:
            print("occurs in both list ",i)
            flag=1
 if flag==0:
      print("no common elements")
    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
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:~/python$ python3 9.py
Enter the radius: 7
153.86
```

10) Find the biggest of 3 numbers

```
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:~/python$ python3 lar.py
    Enter first number:6
    Enter second number:9
    Enter third number:23
    23
     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:8.py
    The extension of file 8.py is ('8', '.py')
    stud@debian:~/python$ python3 11.py
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:~/python$ python3 12.py
    Enter color names:white black blue
    ['white black blue']
    first color: white black blue Last color: white black blue
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:15
    15 + 15 * 15 + 15 * 15 * 15 = 1845
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
    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:ashna
    Enter second string:sherin
     sshna aherin
16) Merge two dictionaries.
    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)
```

```
Directory 1 {'Name': 'Ashna', 'Age': '21'}
Directory 2 {'Gender': 'Female', 'Qualification': 'BCA'}
After merging...
{'Name': 'Ashna', 'Age': '21', 'Gender': 'Female', 'Qualification': 'BCA'}
```

17) Find gcd of 2 numbers

Source code

Output

```
stud@debian:~/python$ python3 17.py
Enter a value : 34
Enter second value: 33
gcd is 1
```

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

```
11=[1,2,3,4,5,6,7,8,9,10]
print(11)
12=[]
for i in range(len(11)):
    if 11[i]%2!=0:
        12.append(11[i])
print("List after removing even elements")
```

```
print(12)
```

```
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]
```

COURSE OUTCOME 2

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)
```

```
stud@debian:~$ python3 new.py
enter the value:5
120
stud@debian:~$
```

20) Generate fibonacci series of N terms.

n=int(input('Enter a limit:'))

Source code

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:~$ python3 new.py
enter the value:7
1
1
2
3
5
stud@debian:~$
```

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

```
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)
```

```
stud@debian:~$ python3 new.py
List elements are: [5, 6, 3, 4, 7]
The sum of list elements is: 25
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)
```

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

23) 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")
```

```
stud@debian:~$ python3 new.py
Enter a number:5

1
2 4
3 6 9
4 8 12 16
5 10 15 20 25
```

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:fisat
f : 1
i : 1
s : 1
a : 1
t : 1
```

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

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

```
stud@debian:~$ python3 new.py
Enter a string:com
coming
stud@debian:~$ python3 new.py
Enter a string:writing
writingly
stud@debian:~$ ■
```

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

Source code

```
Enter the range:6
Enter the words:
ashna
sherin
sulfi
elsa
sudhu
surya
Length of longest word is 6
```

27) Construct following pattern using nested loop.

```
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:~\$ 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)
```

COURSE OUTCOME 3

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(1
```

Microsoft Windows [Version 10.0.19044.1466] (c) Microsoft Corporation. All rights reserved. C:\Users\ASUS\cd Desktop C:\Users\ASUS\Desktop\cd python C:\Users\ASUS\Desktop\python\md Graphics1 C:\Users\ASUS\Desktop\python\Graphics1\notepad circle.py C:\Users\ASUS\Desktop\python\Graphics1\notepad rectangle.py C:\Users\ASUS\Desktop\python\Graphics1\notepad rectangle.py C:\Users\ASUS\Desktop\python\Graphics1\notepad tdgraphics C:\Users\ASUS\Desktop\python\Graphics1\cd tdgraphics C:\Users\ASUS\Desktop\python\Graphics1\tdgraphics\notepad cuboid.py C:\Users\ASUS\Desktop\python\Graphics1\tdgraphics\notepad sphere.py C:\Users\ASUS\Desktop\python\Graphics1\tdgraphics\notepad sphere.py C:\Users\ASUS\Desktop\python\Graphics1\tdgraphics>cd.. C:\Users\ASUS\Desktop\python\Graphics1\tdgraphics>cd..

```
C:\Users\ASUS\Desktop\python>notepad driver1.py

C:\Users\ASUS\Desktop\python>python driver1.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

C:\Users\ASUS\Desktop\python>
```

COURSE OUTCOME 4

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

```
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")
```

```
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
```

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.

```
class Bank:

def __init__(self,acc_no,name,type_of_acc,balance):
self.acc_no= acc_no
self.name=name
self.type_of_acc=type_of_acc
self.balance=balance
def deposit(self,x):
self.balance=self.balance+x
print("balance after deposit is=",self.balance)
def withdraw(self,y):
```

```
self.balance=self.balance-y
print("balance after withdrawal is=",self.balance)
x=int(input("amount to be deposited"))
y=int(input("amount to withdraw"))
ob1=Bank(1,"aaa","ccc",300000)
ob2=Bank(2,"bbb","ccc",500000)
ob1.deposit(x)
ob1.withdraw(y)
ob2.deposit(x)
ob2.withdraw(y)
```

```
amount to be deposited20000
amount to withdraw30000
balance after deposit is= 320000
balance after withdrawal is= 290000
balance after deposit is= 520000
balance after withdrawal is= 490000
```

32) Create a class Rectangle with private attributes length and width. Overload '<' operator to compare the area of 2 rectangles.

```
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,rr):
if (self.length >rr.length and self.breadth > rr.breadth):
print("Area of first rectangle is greater")
else:
       print("Area of second rectangle is greater")
c=int(input("enter length of 1st rectangle"))
d=int(input("enter breadth 1st rectangle"))
u=int(input("enter length of 2nd rectangle"))
v=int(input("enter breadth of 2nd rectangle"))
r1 = Rectangle(c,d)
```

```
r3= Rectangle(u,v)
a=r1.area()
b=r3.area()
print("area of 1st rectangle is:",a)
print("perimeter is:",r1.perimeter())
print("area of 2nd rectangle is:",b)
r1 < r3
```

output

```
enter length of 1st rectangle2
enter breadth 1st rectangle3
enter length of 2nd rectangle1
enter breadth of 2nd rectangle5
area of 1st rectangle is: 6
perimeter is: 10
area of 2nd rectangle is: 5
Area of second rectangle is greater
```

33) Create a class Time with private attributes hour, minute and second.

Overload '+' operator to find sum of 2 time.

Source code

```
(5, 45, 75)
```

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.

```
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("XYZ Publications","Wings of Fire","APJ ABDUL
KALAM",100,500)
p.display3()
```

```
Wings of Fire
APJ ABDUL KALAM
Wings of Fire
APJ ABDUL KALAM
100
500
```

COURSE OUTCOME-5

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

Source code

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

text.txt

I have a wonderful family and love all my family members.

```
Microsoft Windows [Version 10.0.19044.1466]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS>cd desktop

C:\Users\ASUS\Desktop>cd python

C:\Users\ASUS\Desktop\python>cd co5

C:\Users\ASUS\Desktop\python\co5>python 1.py
['I have a wonderful family and love all my family members.']

C:\Users\ASUS\Desktop\python\co5>
```

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('work.csv', 'r') as file:
  reader = csv.reader(file)
  for row in reader:
     print(row)
```

work.csv

4	Α	В	С	D
1	Name	Age	Profession	
2	Das	40	Manager	
3	Vinu	38	Ass.Manager	
1	Manu	35	Staff	
5	Janaki	30	Nurse	
5				

```
Command Prompt

Microsoft Windows [Version 10.0.19044.1466]
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C:\Users\ASUS>cd desktop

C:\Users\ASUS\Desktop>cd python

C:\Users\ASUS\Desktop\python>cd co5

C:\Users\ASUS\Desktop\python\co5>python 2.py
['Name', 'Age', 'Profession']
i['Das', '40', 'Manager']
['Vinu', '38', 'Ass.Manager']
['Manu', '35', 'Staff']
['Janaki', '30', 'Nurse']

C:\Users\ASUS\Desktop\python\co5>
```