FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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FOCUS ON EXCELLENCE

20MCA131 PROGRAMMING LAB LABORATORY RECORD

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

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CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ANAGHA VINAYAKAN(FIT21MCA-2018) 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 examina	ntion

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COURSE OUTCOME 1

1. 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)
```

Output

```
stud@debian:~/anagha18$ python3 leapyr.py
Enter start year
2002
Enter last year
2021
List of leap years:
2004
2008
2012
2016
2020
```

2. List comprehensions:

```
(a)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
                  stud@debian:~/anagha18$ python3 3a1.py
                  10
                  35
                  67
(b) 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
          stud@debian:~/anaghal8$ python3 3b.py
          Enter a number:4
          [1, 4, 9, 16]
```

(c) 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 stud@debian:~/anagha18\$ python3 3c.py
['I', 'i', 'a', 'i', 'o', 'u'] (d) 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)

output

```
stud@debian:~/anagha18$ python3 3d.py
Enter a word:anagha
The ASCII value of the letters in the word is
97
110
97
103
104
97
```

3. 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

4. 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)
print(lst)
  Output
             stud@debian:~/anagha18$ python3 5.py
             Enter an integer:5
             Integer numbers are
              12
             37
             112
             256
             [12, 37, 'over', 'over', 2]
5. Store a list of first names. Count the occurrences of 'a' within the list.
```

Input list1=["ammu","appu","athira"] count=0 for word in list1: for letter in word: if letter=="a": count=count+1 print("The occurences of 'a' within the list is "+str(count)) Output stud@debian:~/anagha18\$ python3 6.py The occurences of 'a' within the list is 4 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.

```
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(l1)):
 s1=s1+l1[i]
print("Sum of first list is",s1)
for j in range(len(l2)):
 s2=s2+l2[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")
Output
               stud@debian:~/anagha18$ python3 7a.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
7. 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)
```

Output

stud@debian:~/anagha18\$ python3 8a.py

Enter a string:onion Original string: onion

String: oni\$n

8. 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]+t

print(rs)

Output

```
stud@debian:~/anagha18$ python3 9a.py
nythop
```

9. 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
stud@debian:~/anagha18$ python3 10.py
Enter the radius: 5
Area of circle is 78.5
10. 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

```
stud@debian:~/anagha18$ python3 11.py
Enter the first number: 24
Enter the second number: 56
Enter the third number:78
78
```

11. 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

```
stud@debian:~/anagha18$ python3 12a.py
Enter the file name: 8a.py
The extension of file 8a.py is (' 8a', '.py')
```

12. 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])
Output
           stud@debian:~/anagha18$ python3 13.py
           Enter colors separated by comma:
           green, red, yellow, white
           First and last colors in_the list are green and white
13. 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)
```

Output

```
stud@debian:~/anagha18$ python3 14.py
Enter an integer:5
615
```

14. 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)
```

Output

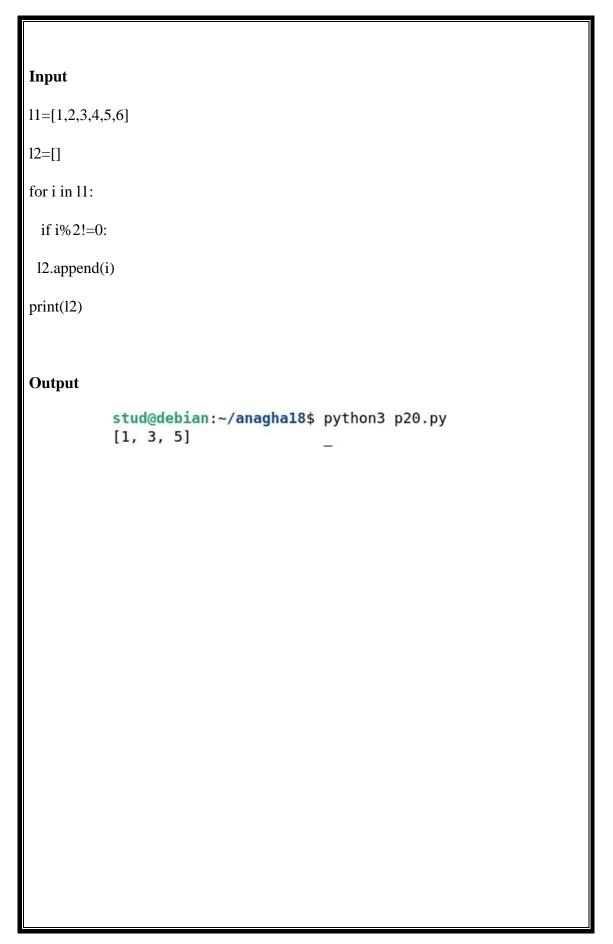
```
stud@debian:~/anagha18$ python3 15.py
['red', 'green', 'blue', 'maroon', 'peach', 'orange']
['white', 'green', 'maroon', 'black']
red
blue
peach
orange
```

15. 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) Output Enter first string:apple Enter second string:orange opple arange **16.** Sort dictionary in ascending and descending order. Input dict1={"a":1,"c":3,"d":2,"b":4} l=list(dict1.items()) print(1) 1.sort() print("Ascending order is\n",l) l=list(dict1.items()) l.sort(reverse=True) print("Descending order is\n",l)

```
Output
stud@debian:~/anagha18$ python3 17.py
ascending order [('ammu', 1), ('baby', 2), ('christy', 3)]
descending order [('christy', 3), ('baby', 2), ('ammu', 1)]
17. Merge two dictionaries.
Input
dict1={"Name":"Athidhi","Age":25}
dict2={"Gender":"F","Qualification":"PG"}
dict1.update(dict2)
print(dict1)
Output
stud@debian:~/anagha18$ python3 mergel.py
{'Name': 'Anagha', 'Age': 15, 'Gender': 'F', 'Qualification': 'PG'}
18. 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
          stud@debian:~/anagha18$ python3 gcd1.py
          Enter first number:24
          Enter second number:8
19. From a list of integers, create a list removing even numbers.
```



COURSE OUTCOME 2

1. 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)
```

Output

```
stud@debian:~/anagha18$ python3 coa.py
Enter a number 5
120
```

2. 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
              stud@debian:~/anagha18$ python3 fibonacci.py
              Enter a number 5
              1
              1
              2
              3
3. 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

4. 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
                stud@debian:~/anagha18$ python3 co4.py
                68
                78
                80
                92
                [4624, 6084, 6400, 8464]
```

```
5. Display the given pyramid with step number accepted from the user.
Eg: N=4 1
24
369
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")
Output
                  stud@debian:~/anagha18$ python3 co5.py
                  Enter a number: 4
                  1
                  2
                            4
                  3
                            6
                                     9
                  4
                            8
                                 12
                                               16
```

6. 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)
```

Output

```
stud@debian:~/anagha18$ python3 co6.py
Enter a string:anagha
a : 3
n : 1
g : 1
h : 1
```

7. 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)
Output
               stud@debian:~/anagha18$ python3 co7.py
               Enter a string:increasing
               increasingly
8. Accept a list of words and return length of longest word.
Input
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:~/anagha18$ python3 co8.py
Enter the range:5
Enter the words:
            ammu
            appu
            bad
            something
            display
            Length of longest word is 9
9. 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")
Output
stud@debian:~/anagha18$ python3 co9.py
```

10. 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) Output stud@debian:~/anagha18\$ python3 co10.py
Enter a number:24 Factors are 2 3 4 6 12 24

COURSE OUTCOME 3

PROGRAM 1:

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 modules and import * statements

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*(1*h + b*h + 1*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 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

```
PS D:\mySpace\learn> cd python
PS D:\mySpace\learn\python> md Graphics
         Directory: D:\mySpace\learn\python
                                    LastWriteTime
   d----
                      28-02-2022 08.29 PM
                                                                                 Graphics
   PS D:\mySpace\learn\python> cd Graphics
PS D:\mySpace\learn\python\Graphics> notepad __init__.py
PS D:\mySpace\learn\python\Graphics> notepad circle.py
PS D:\mySpace\learn\python\Graphics> notepad rectangle.py
PS D:\mySpace\learn\python\Graphics> md tdgraphics
          Directory: D:\mySpace\learn\python\Graphics
   Mode
                                    LastWriteTime
                                                                       Length Name
                       28-02-2022 08.32 PM
   PS D:\mySpace\learn\python\Graphics> cd tdgraphics
PS D:\mySpace\learn\python\Graphics\tdgraphics> notepad
PS D:\mySpace\learn\python\Graphics\tdgraphics> notepad
PS D:\mySpace\learn\python\Graphics\tdgraphics> notepad
PS D:\mySpace\learn\python\Graphics\tdgraphics> notepad
PS D:\mySpace\learn\python\Graphics\tdgraphics> cd ..
PS D:\mySpace\learn\python\Graphics> cd ..
PS D:\mySpace\learn\python> python graphics.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
PS D:\mySpace\learn\python>
```

COURSE OUTCOME 4

1.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,l,b):
      self.l=l
      self.b=b
def area(self):
      return (self.l*self.b)
def perimeter(self):
      return (2*(self.l+self.b))
def print(self):
      print(self.area)
r1=Rectangle(10,2)
r2=Rectangle(5,8)
x=r1.area()
y=r2.area()
print("area of first rectangle is",x)
print("area of second rectangle is",y)
p=r1.perimeter()
q=r2.perimeter()
print("perimeter of first rectangle is",p)
print("perimeter of second rectangle is",q)
print
if(x>y):
```

print('Area of firstrectangle greater than second rectangle');				
else:				
print('Area of second rectangle greater than first rectangle');				
Output				
area of first rectangle is 20 area of second rectangle is 40 perimeter of first rectangle is 24 perimeter of second rectangle is 26 Area of second rectangle greater than first rectangle				

2. Create a Bank account with members account number, name ,type of account and balance. Write a constructor and methods to deposit at the bank and withdraw an amount from the bank.

```
class Bank:
           def __init__(self,accno,aname,a_type,bal):
                       self.accno=accno
                       self.aname=aname
                       self.a_type=a_type
                       self.bal=bal
                   def withdraw(self,x):
                            self.bal=self.bal-x
                   def deposit(self,y):
                            self.bal=self.bal+y
                  def print(self):
           print(self.accno,self.aname,self.a_type,self.bal)
acc1=Bank(2435,'anju','sbi',10000)
acc2=Bank(5436,'aju','federal',22000)
acc1.withdraw(1000)
acc1.deposit(4000)
acc2.withdraw(2500)
acc1.deposit(8000)
acc1.print()
acc2.print()
```

Output	
	2435 anju sbi 21000 5436 aju federal 19500

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

```
Program:
class Rectangle:
                def __init__(self,ln,br):
                             self.ln=ln
                             self.br=br
                  def area(self):
                               p=self.ln*self.br
                               return p
                  def __lt__(self,r1):
                               if r2.area()<r1.area():
                               return r2.area()
                               else:
                               return r1.area()
                 def perim(self):
                               q=2*(self.ln+self.br)
                               return q
a=int(input("Enter length of the first rectangle:"))
b=int(input("Enter breadth of the first rectangle:"))
r1=Rectangle(a,b)
a=int(input("Enter length of the second rectangle:"))
b=int(input("Enter breadth of the second rectangle:"))
r2=Rectangle(a,b)
print("Perimeter of first rectangle= ",r1.perim())
print("Perimeter of second rectangle= ",r2.perim())
```

print("Least one is:",r1<r2)</pre>

Output:

Enter length of the first rectangle:12
Enter breadth of the first rectangle:4
Enter length of the second rectangle:8
Enter breadth of the second rectangle:6
Perimeter of first rectangle= 32
Perimeter of second rectangle= 28
Least one is: 48

4.Create a class Time with private attributes hour,minute and second.Overload '+' operator to find the sum of 2 time.

```
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:	7 : 65 : 59	

5. 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 overreading.

Input class Publisher: def __init__(self,name): self.name=name class Book(Publisher): def __init__(self,name,title,auther): super().__init__(name) self.title=title self.auther=auther def print_function(self): print("This Fuction is a member fuction of class Publisher") class Python(Book): def __init__(self,name,title,auther,price,nop): super().__init__(name,title,auther) self.price=price self.nop=nop def print_function(self): print("Name",self.name) print("Title";,self.title) print("Auther";,self.auther) print("Price",self.price) print("Number of Pages";,self.nop)

```
p1=Python("Text book","PythonProgramming";"Mr.abc&",100,500)
p1.print_function()
p2=Book("a","b","c")
p2.print_function()
OUTPUT
 Name : Text book
 Title: Python Programming
 Auther : Mr.abc
 Price: 100
 Number of Pages : 500
 This Fuction is a member fuction of class Publisher
```

COURSE OUTCOME 5

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

Program:

Output:

```
PS C:\Users\HP\OneDrive\Desktop\python\co5> python qn1.py
['"Cats, also called domestic cats are small, carnivorous mammals, of the family Felidae.', "Domestic cat s are often called 'house cats' when kept as indoor pets.", 'Cats have been domesticated for nearly 10,00 0 years.', 'They are one of the most popular pets in the world."']
PS C:\Users\HP\OneDrive\Desktop\python\co5> [
```

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

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

Output: PS C:\Users\HP\OneDrive\Desktop\python\co5> python qn2.py ['Name', 'Designation', 'Salary'] ['Jessy', 'Manager', '90000'] ['Tom', 'Clerk', '40000'] ['Alfred', 'Assistant Manager', '70000'] PS C:\Users\HP\OneDrive\Desktop\python\co5>