FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577



'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA131 - PROGRAMMING LAB

Name: GOPIKA BABU

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: 2021 A Roll No: 60

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University Exam.Reg. No: FIT21MCA-2060

CERTIFICATE

Certified that this is the Bonafide record of the Practical work done by Mrs. **GOPIKA BABU** in the **20MCA131- PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022.

Signature of Staff in Charge	Signature of H.O.D	
Name:	Name:	
Date:		

Date of University practical examination

Signature of Signature of

Internal Examiner 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:~/Pictures/Gopika.py$ python3 leap.py
enter the current year2021
enter the final year2030
2024 is a leap year
2028 is a leap year
stud@debian:~/Pictures/Gopika.py$
```

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

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)
```



b. Square of N numbers

Source code

```
n=int(input('Enter range:'))
for num in range(1,n+1):
    num=num*num
    print(num)
```

Output

```
Enter a number:5
[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)
```

```
L=[]
s="India is my country"
for i in s:
    if i in ("aeiouAEIOU"):
        L.append(i)
print(L)
['I', 'i', 'a', 'i', 'o', 'u']
```

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

Source code

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

Output

```
Enter a word:python
The ASCII value of the letters in the word is
112
121
116
104
111
110
```

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

```
list1=[]
list2=[]
x=input("Enter a line of text:")
for i in x.split(" "):
    list1.append(i)
```

```
Enter a string:hello good night hello good hello 2 good 2 night 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:~/Pictures/Gopika.py$ python3 5.py
Enter an integer: 69
Enter an integer: 45
Enter an integer: 79
Enter an integer: 54
Enter an integer: 100
[69, 45, 79, 54, 'Over']
Enter an integer:
```

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

Source code list=['anjana','aparna','anna'] 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** ⅎ stud@debian: ~/Pictures/Gop stud@debian:~/Pictures/Gopika.py\$ python3 6.py stud@debian:~/Pictures/Gopika.py\$ 6) Enter 2 lists of integers. Check a. whether list are of same length 11 = [2,4,8]12 = [3,5,7,9]x=len(11)y=len(12)if(x==y): print('same') else: print('not same') Output stud@debian: ~/Pictures/Gopika.py ⊕ stud@debian:~/Pictures/Gopika.py\$ python3 7a.py stud@debian:~/Pictures/Gopika.py\$

```
b. whetherlist sums of same value
11 = [2,4,8]
12 = [3,5,7,9]
s=0
for i in 11:
s=s+i
for i in 12:
t=0
t=t+i
if(s==t):
print('same')
else:
print('not same')
Output
                                   stud@debian: ~/Pictures/G
stud@debian:~/Pictures/Gopika.py$ python3 7b.py
stud@debian:~/Pictures/Gopika.py$
c. whether any value occur in both.
11=[8,4,9]
12=[1,2,3,4,5]
f=0
for i in 11:
if(i in 12):
print(i)
f=f+1
if(f==0):
print('no common elements')
Output
```

```
stud@debian: ~/Pictures/Gopika.py$ python3 7cc.py
4
stud@debian: ~/Pictures/Gopika.py$
```

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: ~/Pictures/Gopika.py

stud@debian: ~/Pictures/Gopika.py$ python3 co8.py
enter the string: ONION
original string: ONION
replaced string: ONI$N
stud@debian: ~/Pictures/Gopika.py$
```

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)
```

```
ⅎ
                                       stud@debian: ~/Pictures/Gopika.py
       stud@debian:~/Pictures/Gopika.py$ python3 co9.py
       nythop
       stud@debian:~/Pictures/Gopika.py$
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: ~/Pictures/Gopika.py
            +
          stud@debian:~/Pictures/Gopika.py$ python3 abc.py
          Enter the radius9
254.34
          stud@debian:~/Pictures/Gopika.py$
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: ~/Pictures/Gopika.py

stud@debian: ~/Pictures/Gopika.py

enter first number 78

enter second number 46

enter third number 83

83 Is the greatest

stud@debian: ~/Pictures/Gopika.py$
```

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

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

Enter the file name:swap.py
The extension of file swap.py is ('swap', '.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])
```

```
Enter colors separated by comma:

pink,red,yellow,black

First and last colors in the list are pink and black
```

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

```
Fnter an integer:8
984
```

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

Source code

```
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

```
['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.

Source code

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

```
Enter first string:Computer
Enter second string:Architecture
Aomputer Crchitecture
```

16) Merge two dictionaries.

Source code

```
dict1={"Name":"Rose","Age":25}
dict2={"Gender":"F","Qualification":"PG"}
dict1.update(dict2)
print(dict1)
```

Output

```
| dict1={"Name":"Rose","Age":25}
dict2={"Gender":"F","Qualification":"PG"}
dict1.update(dict2)
print(dict1)

{'Name': 'Rose', 'Age': 25, 'Gender': 'F', 'Qualification': 'PG'}
```

17) Find gcd of 2 numbers

Source code

```
Enter first number:28
Enter second number:44
4
```

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

```
Source code

a=[1,2,3,4,5,6,7,8]

b=[]

for i in a:

    if i%2!=0:

    b.append(i)

print(b)
```

```
a=[1,2,3,4,5,6,7,8]
b=[]
for i in a:
    if i%2!=0:
        b.append(i)
print(b)
[1, 3, 5, 7]
```

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COURSE OUTCOME 2	
1) 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)	
Output	
C:\Users\gokul\Desktop>python3 positive.py Enter a number:4 1 2 6 24	
2) Generate fibonacci series of N terms.	
Source code	

```
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
```

```
Enter a number:9

0

1

1

2

3

5

8

13
```

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

Source code

```
list1=[1,2,3,4,5]
sum=0
for i in list1:
sum=sum+i
print(sum)
```

```
list1=[1,2,3,4,5]
sum=0
for i in list1:
sum=sum+i
print(sum)
```

4) 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)
Output
```

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

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

Source code

```
n=int(input("Enter a number:"))
for j in range(0,n+1):
    for i in range(1,j+1):
        i=j*i
        print(i,end=" ")
    print("\n")
```

Output

```
Enter a number:4
1
2     4
3     6     9
4     8     12     16
```

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

```
string=input("Enter a string:")
list1=[]
```

```
for i in string:
    if i not in list1:
        list1.append(i)

for i in list1:
    count=0
    for j in string:
        if(i==j):
        count=count+1
    print(i,"\t:",count)
```

```
Enter a string:programming
p : 1
r : 2
o : 1
g : 2
a : 1
m : 2
i : 1
n : 1
```

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

Source code

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

Output

```
Enter a string:multiply multiplying
```

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

```
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
       Enter the range:4
       Enter the words:
       physics
       chemistry
       Biology
       Length of longest word is 9
9) Construct following pattern using nested loop.
     *
     * * * * *
     * * * *
     Source code
     for i in range(1,6):
```



10) Generate all factors of a number.

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

Output
```

```
Enter a number:46
Factors are
1
2
23
46
```

COURSE OUTCOME 3

1) Create a package graphics with modules rectangle, circle and subpackage 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*(1*h + b*h + 1*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(10))
```

COURSE OUTCOME 4

 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")
```

```
Enter length of rectangle1: 5
Enter breadth of rectangle1: 7
Area: 35
Perimeter: 24
Enter length of rectangle2: 8
Enter breadth of rectangle2: 2
Area: 16
Perimeter: 20
First rectangle is larger
```

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

```
class bank:

def __init__(self,acc_no,name,acc_type,bal):

    self.acc_no=acc_no

    self.name=name

    self.acc_type=acc_type

    self.bal=bal

def deposit(self):

    self.bal=self.bal+y

    return self.bal

def withdraw(self):

    return self.bal-y
```

```
def display_balance(self):
         return self.bal
acc1=bank("b11","Ann","Savings",50000)
while(1):
 print("1.Deposit\n2.Withdraw\n3.Display balance\n4.Exit\n")
 ch=int(input("Enter your choice:"))
 if ch==1:
         amt=int(input("Enter the amount:"))
         b=acc1.deposit(amt)
         print("Current balance:",b)
 elif ch==2:
         amt=int(input("Enter the amount:"))
         b=acc1.withdraw(amt)
         print("Current balance:",b)
 elif ch==3:
         cb=acc1.display_balance()
         print("Current balance:",cb)
 elif ch==4:
         exit(1)
 else:
         print("Invalid choice")
Output
 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.

```
Source code
```

```
class Rectangle:
  def __init__(self,length,breadth):
            self.__length = length
            self.\_breadth = breadth
  def __lt__ (self,rect2):
           if \ self. \underline{\hspace{0.5cm}} length*self. \underline{\hspace{0.5cm}} breadth < rect2. \underline{\hspace{0.5cm}} length*rect2. \underline{\hspace{0.5cm}} 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(1,b)
if rect1 < rect2:
  print("Second rectangle is larger")
else:
  print("First rectangle is larger")
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 sum of 2 time.

```
class Time:
  def __init__(self,h,m,s):
    self.__hour=h
    self.__minute=m
    self.__second=s
  def __add__(self,ob):
    hour=self.__hour+ob.__hour
    minute=self.__minute+ob.__minute
    second=self.__second+ob.__second
    t=Time(hour,minute,second)
    return t
  def print_it(self):
    print("Hour :",self.__hour)
    print("Minute :",self.__minute)
    print("Second :",self.__second)
t1=Time(10,10,10)
t2=Time(20,20,20)
t3=t1+t2
t3.print_it()
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 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("ABC Publications","Gaming Python","Gokul",100,500)

p.display3()

q=Python("XYZ Publications","Java programming","E

Balagurusami",500,1200)

q.display3()

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.

Source code

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>
```