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

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577



'FOCUS ON EXCELLENCE'

## LABORATORY RECORD 20MCA131 - PROGRAMMING LAB

Name : ABHINAV K

**Branch**: MASTER OF COMPUTER APPLICATION

Semester: 1 Batch: 2021 A Roll No: 04

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## FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)<sup>TM</sup>

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Name : ABHINAV K

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University Exam.Reg. No: FIT21MCA-2004

## **CERTIFICATE**

Certified that this is the Bonafide record of the Practical work done by Mr. **ABHINAV K** 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

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Internal Examiner

External Examiner

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## **Department of Computer Applications** operator to compare the area of 2 rectangles. Create a class Time with private attributes **33** 20/01/2022 hour, minute and second. Overload '+' operator to find sum of 2 time Create a class Publisher (name). Derive 34 class Book from Publisher with attributes title and author. Derive class Python from Book with attributes price and 34 20/01/2022 no\_of\_pages. Write a program that displays information about a Python book. Use base class constructor invocation and method overriding. **C05 36** Write a Python program to read a file line **35** 03/02/2022 by line and store it into a list. Write a Python program to read each row 36 from a given csv file and print a list of **36** 03/02022 strings.

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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**

```
Enter leap year between given two years
Enter end year 2060
List of leap years
2024
2028
2032
2036
2040
2044
2048
2052
2056
```

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

## **Source code**

```
list=[-1,1,7,25,-34,38]
print("Elements in the list are:",list) print("Positive numbers in the list")
for num in list:
    if num>=0:
        print(num)
Output
```

7 25 38 ccf@FISATPC0360:~/

## Source code

b. Square of N numbers

1

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

## **Output**

```
enter range 5
1
4
9
16
25
```

c. Form a list of vowels selected from a given word.

## 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**

```
ccf@FISATPC0360:~
['a', 'i']
ccf@FISATPC0360:~
```

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 name:fisat
The ASCII value of the letters in the word is
102
105
115
97
116
```

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

## **Source code**

```
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
Enter a string: home is sweet
           1
home
           1
is
           1
```

1

sweet

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**

```
Enter an integer: 20
Enter an integer: 66
Enter an integer: 99
Enter an integer: 101
[20, 66, 99, 'Over']
Enter an integer: ■
```

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

## Source code

- 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=[1,2,3,4]
12=[5,8,7]
print("List 1",l1)
print("List 2",l2)
x=len(11)
y=len(12)
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[i]
print("Sum of elements 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])
```

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## **Output**

```
[1, 2, 3, 4]
[5, 8, 7]
not same length
the sum of the first list is: 10
the sum of the second list is: 20
There is no element in common
```

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: ",str)
char=str[0]
str=str.replace(char,'$')
str=char+str[1:]
print("String: ",str)

Output
enter a stringonion
original string onion
string: oni$n
```

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:~/Anits pythons prg9.py
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**

## 10) Find the biggest of 3 numbers

## **Source code**

c is bigger

```
a=int(input('Enter the value of a:'))
b=int(input('Enter the value of b:'))
c=int(input('Enter the value c:'))
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

enter the value of a 10
enter the value of c 30
enter the value of c 30
```

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

```
Source code
```

```
import os
a=input("Enter filename:")
print("The extension of file",a,"is",os.path.splitext(a))
Output
enter the filename : python.py
The extension of file python.py is ('python', '.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**

```
Ente the size:4
Enter Your Choice:Red
Enter Your Choice:Green
Enter Your Choice:Blue
Enter Your Choice:White
Red
White
```

13) Accept an integer n and compute n+nn+nnn.

## Source code

```
n=int(input("Enter a number:"))
a=n*1
b=n*11
c=n*111
s=a+b+c
print(n,"+",n,"*",n,"+",n,"*",n,"*",n,"=",s)
```

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## **Output**

```
Enter a number:4
```

14) Print out all color from color-list1 not contained in color-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
red
green
```

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
enter 1st string anil
enter 2nd string kiran
a k
```

## 16) Merge two dictionaries.

```
Source code
```

```
D1={"Name":"Anil","Age":"21"}

print("Directory 1",D1)

D2={"Gender":"male","Qualification":"BCA"}

print("Directory 2",D2)

D1.update(D2)

print("After merging...")

print(D1)

Output

Directory 1 {'Name': 'Anil', 'Age': '21'}

Directory 2 {'Gender': 'male', 'Qualification': 'BCA'}

After merging...
{'Name': 'Anil', 'Age': '21', 'Gender': 'male', 'Qualification': 'BCA'}
```

## 17) Find gcd of 2 numbers

## Source code

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

```
Source code 11=[1 2 3 4 5
```

```
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**

[1, 3, 5, 7]

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## Department of Computer Applications COURSE OUTCOME 2

19) Program to find the factorial of a number.

```
Source code
```

```
n=int(input('enter the value:'))
fact=1
for i in range (1,n+1):
  fact=fact*i
print(fact)

Output
enter the value 5
120
stud@debian ~ /Anils |
```

20) Generate fibonacci series of N terms.

## **Source code**

## **Output**

```
enter the value 5
0
1
2
3
5
```

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

```
Source code
```

```
list=[1,6,3,4,1]
print("List elements are:",list)
sum=0
for i in list:
        sum=sum+i
print("The sum of list elements is:",sum)
Output
```

15

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

## 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**

```
68
78
80
92
[4624, 6084, 6400, 8<u>4</u>64]
```

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")
```

## **Output**

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**

```
Enter a string:armstrong
a : 1
r : 2
m : 1
s : 1
t : 1
o : 1
n : 1
g : 1
```

25) 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:subsrtact
subsrtacting
```

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

## Source code

verygood morning

Length of longest word is 8

```
27) Construct following pattern using nested loop.
   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")
   <u>Output</u>
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```

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)
```

## **Output**

```
Enter a number:12
Factors are
1
2
3
4
6
12
```

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## **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 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**

```
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\owner\Desktop\LAB MCA\PYTHON\record\co3\2.py
Area of rectangle :144
Area of circle :36
Area of sphere :1808.639999999999
Area of cuboid :95551488
Perimeter of rectangle :48
Perimeter of circle :37.68
Diameter of sphere :24
Periameter of cuboid :184

C:\Users\owner\Desktop\LAB MCA\PYTHON\record\co3\
```

## **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.

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**

```
Enter length of rectangle1: 4
Enter breadth of rectangle1: 6
Area: 24
Perimeter: 20
Enter length of rectangle2: 2
Enter breadth of rectangle2: 3
Area: 6
Perimeter: 10
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.

## 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)
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** 

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

    Deposit

2.Withdraw
3.Display balance
4.Exit
Enter your choice:1
Enter the amount:2000
Current balance: 52000
1.Deposit
2.Withdraw
3.Display balance
4.Exit
Enter your choice:2
Enter the amount:1000
Current balance: 51000
1.Deposit
2.Withdraw
Display balance
4.Exit
Enter your choice:4
```

32) 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: "))</pre>
```

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```
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")</pre>
```

## <u>output</u>

```
Enter length of rectangle1: 1
Enter breadth of rectangle1: 3
Enter length of rectangle2: 5
Enter breadth of rectangle2: 8
Second rectangle is larger
```

33) 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
```

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

## **Output**

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. 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","Java programming","E
Balagurusami",500,1200)
q.display3()
Output
```

```
Taming Python
jeeva jose
100
500
Java programming
E Balagurusami
500
1200
```

## **COURSE OUTCOME 5**

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

## Source code

## **Output**

["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."]

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

## <u>Output</u>

```
['Name', 'Age', 'Profession']
['John', '30', 'Manager']
['Jerin', '20', 'Accountant']
['Ann', '22', 'Professor']
['Angel', '24', 'Engineer']
['Sree lakshmi', '28', 'Doctor']
```

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