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)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

CERTIFICATE

Signature of HOD

This is to certify that this is a Bonafide record of the Practical work done by **CHANCHAL K SUNIL** 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.

Name:	Name:
Date of University practical examination	
Signature of Internal Examiner	Signature of External Examiner

Signature of Staff in Charge

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1) Display future leap year from current leap year to a final year entered by user.

SOURCE CODE

```
print("print the leap years between the two given years")

print("enter the startyear")

startyear= int(input())

print("enter the endyear")

endyear= int(input())

print("list of leap years is") for year in range(startyear,endyear):

if(0 == year % 4) and (0 != year % 100) or (0 == year % 400):

print (year)
```

```
print the leap years between the two given years enter the startyear 2020 enter the endyear 2050 list of leap years is 2020 2024 2028 2032 2036 2040 2044 2048
```

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

SOURCE CODE

```
list1=[0,-8,4,3,9,-4,-2,3,7,-4]
list2=[]
for i in list1:
if i>=0:
list2.append(i)
print(list2)
```

OUTPUT

(b) Square of N numbers.

SOURCE CODE

```
list1=[2,5,8,7]
for i in list1:
print(i**2)
```

OUTPUT

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

```
SOURCE CODE
```

```
s = input("enter any string ")
vowel=[]
for i in s:
   if (i in "AEIOUaeiou"):
      vowel.append(i)
   print(vowel)
```

OUTPUT

```
enter any string Elephant
['E', 'e', 'a']_
```

(d) List ordinal value of each element from a given word.

SOURCE CODE

```
x=input("Enter a word\n")
list1=[]
for i in x:
    y=ord(i)
    list1.append(y)
print(list1)
```

```
Enter a word
haii
[104, 97, 105, 105]
```

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

```
SOURCE CODE
```

```
list1=[]
ulist=[]
string=input("Enter a line of text :")
for i in string.split(" "):
    list1.append(i)
    if i not in ulist:
        ulist.append(i)

for i in ulist:
    print(i,"\t",list1.count(i))
```

OUTPUT

```
Enter a line of text :Home Sweet Home
Home 2
Sweet 1
```

4) Prompt the user for a list of integers. For all values greater than 100, store 'over' instead.

```
list=[]
for i in range(3):
  j=int(input())
  if(j>100):
     list.append("over")
else:
     list.append(j)
print(list)
```

```
OUTPUT
25
102
87
[25, 'over', 87]
5) Store a list of first names. Count the occurrence of 'a' within the list.
SOURCE CODE
       list=[ ]
       p=0
       for i in range(3):
         j=input()
         list.append(j)
       for i in list:
         s=i.count('a')
       p=p+s
       print(p)
OUTPUT
 Chanju
 Keerthana
 Namitha
6) Enter 2 lists of integers.
SOURCE CODE
      list1=[1,3,5,7,9]
      list2=[1,4,4,6,10]
       #checking whether length of the list is same or not
```

```
print("List 1 is")
print(list1)
print("List 2 is")
print(list2)
x=len(list1)
print("length of list1 is")
print(x)
y=len(list2)
print("length of list2 is")
print(y)
if(x==y):
 print("Length of both list is same\n")
else:
print("Length is not same\n")
#checking whether list sums to the same value
print("sum of elements in list1 is")
s=0
for i in list1:
 s=s+i
print(s)
print("sum of elements in list2 is")
t=0
for j in list2:
 t=t+j
print(t)
if(s==t):
 print("sum of both lists is same")
else:
 print("sum is not same")
#checking whether any value occur in both
flag=0
```

```
for i in list1:
        if (i in list2):
         flag=flag+1
         print("value present in both list is",i)
        if(flag==0):
         print("no value is common in the lists")
OUTPUT
 List 1 is
 [1, 3, 5, 7, 9]
 List 2 is
 [1, 4, 4, 6, 10]
 length of list1 is
 length of list2 is
 Length of both list is same
 sum of elements in list1 is
 sum of elements in list2 is
 sum of both lists is same
 value present in both list is 1
7) Get a string from an input string where all occurrences of first character
replaced with '$', except first character.
SOURCE CODE
      str1=input("enter a string ")
       print("original string :",str1)
      char=str1[0]
       str2=str1.replace(char,'$')
       str3=char+str2[1:]
       print("Replaced string :",str3)
```

OUTPUT

```
enter a string onion
original string : onion
Replaced string : oni$n
```

8) Create a string from a given string where first and last characters exchanged.

SOURCE CODE

```
s="python"
x=s[0]
y=s[-1]
n=len(s)
string=y+s[1:n-1]+x
print("origial string: ",s)
print("String after exchanging: ",string)
```

OUTPUT

```
origial string: python
String after exchanging: nythop
```

9) Accept radius from user and find area of circle.

SOURCE CODE

```
x=int(input('Enter the radius: '))
A=3.14*x*x
print("Area of the circle is",A)
```

```
Enter the radius: 5
Area of the circle is 78.5
```

10) Find the biggest of three numbers entered.

SOURCE CODE

```
x=input('enter three numbers')
y=input()
z=input()
a=int(x)
b=int(y)
c=int(z)
if(a>b):
    if a>c:
       print(a, "is big")
    else:
        print(c," is big")
    else:
    if b>c:
       print(b," is big")
     else:
      print(c,"is big")
```

OUTPUT

```
enter three numbers: 2
6
8
8 is big
```

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

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

```
OUTPUT
```

```
enter a file name: big.py
The extension of file big.py is ('big', '.py')
```

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

SOURCE CODE

```
s=input("Enter color names separated by commas: ")
list1=s.split(',')
print(list1)
print("First colour is",list1[0])
print("Last colour is",list1[-1])
```

OUTPUT

```
Enter color names separated by commas: Green, Red, Blue, Yellow ['Green', 'Red', 'Blue', 'Yellow']
First colour is Green
Last colour is Yellow
```

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

SOURCE CODE

```
x=int(input("enter a number"))
a=str(x)
b=a+a
c=a+a+a
d=x+int(b)+int(c)
print(d)
```

```
enter a number: 2
246
```

14) Print out all colors from color list 1 not contained in color list2.

SOURCE CODE

```
list1=["green","white","black","yellow"]
list2=["violet","black", "red","rose","yellow"]
list3=[]
for i in list1:
    if(i not in list2):
        list3.append(i)
print("Color list 1",list1)
print("Color s from list 1 not contained in list 2: ",list3)
```

OUTPUT

```
Color list 1 ['green', 'white', 'black', 'yellow']
Color list 2 ['violet', 'black', 'red', 'rose', 'yellow']
Colors from list 1 not contained in list 2: ['green', 'white']
```

15) Create a single string separated with space from two strings by swapping the character at position 1.

```
a=input("Enter string 1:")
b=input("Enter string 2:")
new_a = b[:1] + a[1:]
new_b = a[:1] + b[1:]
c=new_a + '' + new_b
print(c)
```

OUTPUT

```
Enter string 1:SWEET
Enter string 2:DREAMS
DWEET SREAMS
```

16) Sort dictionary in ascending and descendind order.

SOURCE CODE

```
d = { 'a': 30, 'b': 40, 'c': 50, 'd': 60}

print("The original dictionary: ", d)

a = dict(sorted(d.items(), reverse = True, key=lambda x: x[1]))

print("After sorting by value in reverse order: ", a)

a = dict(sorted(d.items(), key=lambda x: x[1]))

print("After sorting by value in ascending order: ", a)
```

OUTPUT

```
The original dictionary: {'a': 30, 'b': 40, 'c': 50, 'd': 60}
After sorting by value in reverse order: {'d': 60, 'c': 50, 'b': 40, 'a': 30}
After sorting by value in ascending order: {'a': 30, 'b': 40, 'c': 50, 'd': 60}
```

17) Merge 2 dictionaries.

SOURCE CODE

```
d1={'a',600,'b',700}
d2={'x',500,'y',400}
d=d1.copy()
d.update(d2)
print("Merged dictionary is ",d)
```

```
Merged dictionary is {'b', 'y', 'a', 400, 'x', 500, 600, 700}
```

18) Find gcd of 2 numbers.

```
SOURCE CODE
```

```
x=int(input("Enter first digit:"))
y=int(input("Enter second digit:"))
z=min(x,y)
for i in range (1,z+1):
    if(x%i==0 and y%i==0):
        print(i)
gcd=(i)
print("gcd=",gcd)
```

OUTPUT

```
Enter first digit:4
Enter second digit:20
1
2
4
gcd= 4
```

19) From a list of integers create a list removing even numbers.

SOURCE CODE

```
list1=[2,5,7,8,9,3,15]
list2=[]
for i in list1:
    if(i%2!=0):
        list2.append(i)
print("list after removing even integers :",list2)
```

```
list after removing even integers : [5, 7, 9, 3, 15]
```

1) Program to find the factorial of a number.

SOURCE CODE

```
x=input( 'enter a number :')
y=int(x)
fact=1
for i in range (1, y+1):
    fact=fact*i
print("Factorial is ",fact)
```

OUTPUT

```
enter a number :5
Factorial is 120
```

2) Generate Fibonacci series of N terms.

OUTPUT

```
Enter a number: 6
0
1
1
2
3
```

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

SOURCE CODE

```
\begin{array}{l} list1=[2,8,5,11,4]\\ s=0\\ for i in list1:\\ s=s+i\\ print("The sum of all items in a list is",s) \end{array}
```

OUTPUT

```
The sum of all items in a list is 30
```

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

```
list1=[]
for i in range(1000,10000,1):
    for j in range(32,100,1):
        if i==j*j:
            string=str(i)
            if int(string[0])%2==0 and int(string[1])%2==0 and int(string[2])%2==
0 and int(string[3])%2==0:
            list1.append(i)
print(list1)
```

OUTPUT

```
[4624, 6084, 6400, 8464]
```

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

SOURCE CODE

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

```
Enter the number: 4

1
2 4
3 6 9
4 8 12 16
```

6) Count the number characters in a string

SOURCE CODE

```
x=input("Enter a string: ")
c=0
for i in x:
    c=c+1
print("The number of characters in the given string is",c)
```

OUTPUT

```
Enter a string: Chanchal
The number of characters in the given string is 8
```

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

SOURCE CODE

```
x=input("enter the string:")
y=len(x)
if(y>2):
    if(x[-3:]=='ing'):
        print(x+"ly")
    else:
        print(x+"ing")
else:
    print("not sufficient")
```

```
enter the string:food
fooding
enter the string:wing
wingly
```

8) Accept a list of word and return the length of the largest word.

SOURCE CODE

```
list=[]
length=[]
print("enter 5 words")
for i in range (5):
    str=input()
    list.append(str)
for j in list:
    length.append(len(j))
print("length of longest word is:",max(length))
```

OUTPUT

```
enter 5 words
cat
peacock
butterfly
rabit
kitten
length of longest word is: 9
```

9) Construct following pattern using nested loop.

```
for j in range(0,6):
for i in range(0,j):
print("*",end=' ')
print("\n")

for k in range(4,0,-1):
for p in range(0,k):
print("*",end=' ')
print("\n")
```

```
OUTPUT
10) Generate all factors of a number.
SOURCE CODE
       x=int(input("Enter a number: "))
       for i in range(1,x+1):
        if(x\%i = = 0):
         print(i)
OUTPUT
        Enter a number: 28
        1
        2
        4
        7
        14
        28
```

1) Work with built-in packages.

SOURCE CODE

```
import time
import datetime
today=datetime.date.today()
print(f"The time is {time.ctime()} and date is {today}")
```

OUTPUT

```
The time is Tue Mar 1 05:02:37 2022 and date is 2022-03-01
```

2) Create a package graphics with modules rectangle, circle and sub-package 3Dgraphics 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

Graphics\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(1,b,h):
return 2*(1*h + b*h + 1*b)
def volume_cuboid(1,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))
OUTPUT
C:\Users\chanc\OneDrive\Desktop>cd Python
C:\Users\chanc\OneDrive\Desktop\Python>md Graphics
C:\Users\chanc\OneDrive\Desktop\Python>cd Graphics
C:\Users\chanc\OneDrive\Desktop\Python\Graphics>notepad circle.py
C:\Users\chanc\OneDrive\Desktop\Python\Graphics>notepad rectangle.py
C:\Users\chanc\OneDrive\Desktop\Python\Graphics>md tdgraphics
C:\Users\chanc\OneDrive\Desktop\Python\Graphics>cd tdgraphics
C:\Users\chanc\OneDrive\Desktop\Python\Graphics\tdgraphics>notepad cuboid.py
C:\Users\chanc\OneDrive\Desktop\Python\Graphics\tdgraphics>notepad sphere.py
C:\Users\chanc\OneDrive\Desktop\Python\Graphics\tdgraphics>cd ..
C:\Users\chanc\OneDrive\Desktop\Python\Graphics>cd ...
C:\Users\chanc\OneDrive\Desktop\Python>notepad driver.py
C:\Users\chanc\OneDrive\Desktop\Python>python driver.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
```

1) 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.len=length
   self.br=breadth
 def area(self):
  return self.len*self.br
 def perimeter(self):
  return (self.len+self.br)*2
r1 = Rectangle(10,6)
r2 = Rectangle(5,2)
x=r1.area()
y=r2.area()
print("Area of r1 is",x)
print("Area of r2 is",y)
if(x==y):
 print("Both rectangles have the same area")
else:
 print("Areas are not equal")
```

```
Area of r1 is 60
Area of r2 is 10
Areas are not equal
```

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.

SOURCE CODE class Bank: def __init__(self,acc_no,name,typ_ac,balance): self.acc_no=acc_no self.name=name self.typ_ac=typ_ac self.balance=balance def withdraw(self,x): self.balance=self.balance-x def deposit(self,y): self.balance=self.balance+y def print(self): q=self.balance print("CUSTOMER WITH A/C No",self.acc_no,"A/C NAME ",self.name,"A/C TYPE",self.typ_ac,"HAS BALANCE",q) ac1=Bank(40112,"chanju","savings",10000) ac2=Bank(40113,"keerthu","savings",5000) ac3=Bank(40114,"ankitha","savings",15000) ac1.withdraw(1000) ac1.deposit(500) ac2.deposit(4000) ac3.withdraw(1000) ac3.deposit(100) ac1.print() ac2.print() ac3.print() OUTPUT CUSTOMER WITH A/C No 40112 A/C NAME chanju A/C TYPE savings HAS BALANCE 9500 CUSTOMER WITH A/C No 40113 A/C NAME keerthu A/C TYPE savings HAS BALANCE 9000 CUSTOMER WITH A/C No 40114 A/C NAME ankitha A/C TYPE savings HAS BALANCE 14100

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.len=length
                     self.br=breadth
       def area(self):
              return self.len*self.br
       def perimeter(self):
              return (self.len+self.br)*2
       def __lt__(self,rr):
                     if(self.br*self.len<rr.br*rr.len):</pre>
                             return True
                     else:
                             return False
r1 = Rectangle(20,10)
r2 = Rectangle(15,2)
x=r1.area()
y=r2.area()
print("Area of r1 is",x)
print("Area of r2 is",y)
if(r1<r2):
       print("r2 has more area")
else:
       print("r1 has more area")
OUTPUT
 Area of r1 is 200
 Area of r2 is 30
 r1 has more area
```

4) 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,hour,minute,second):

self.__hr=hour

self.__min=minute

self.__sec=second

def __add__(self,ad):

x=self.__hr+ad.__hr

y=self.__min+ad.__min

z=self.__sec+ad.__sec

print("t1+t2 is",x,":",y,":",z)

t1=Time(2,10,20)

t2=Time(1,20,5)

t1+t2
```

```
t1+t2 is 3 : 30 : 25
```

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.

SOURCE CODE

```
class Publisher:
       def __init__(self,name):
       self.name=name
class Book(Publisher):
       def __init__(self,name,author,title):
       super().__init__(name)
       self.title=title
       self.author=author
class Python(Book):
       def __init__(self,name,author,title,price,page):
        super().__init__(name,author,title)
        self.price=price
        self.pages=page
       def Print(self):
        print(P.name)
        print(P.title)
        print(P.author)
        print(P.price)
        print(P.pages)
P=Python('KHANNA Publishers', 'Taming Python', 'Jeeva Jose', 330, 350)
P.Print()
```

```
KHANNA Publishers
Jeeva Jose
Taming Python
330
350
```

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

SOURCE CODE

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

OUTPUT

```
C:\Users\chanc\OneDrive\Desktop>cd program
```

C:\Users\chanc\OneDrive\Desktop\program>notepad cha.txt

C:\Users\chanc\OneDrive\Desktop\program>notepad pgm.py

C:\Users\chanc\OneDrive\Desktop\program>python pgm.py ["ozone depletion, gradual thinning of Earth's ozone layer in the upper atmosphere caused by the release of chemical com pounds containing gaseous chlorine or bromine from industry and other human activities. The thinning is most pronounced in the polar regions, especially over Antarctica."]

2) Write a python program to read each row from given CSV file and print a list of strings.

SOURCE CODE

final.csv

Name, Place, DOB

Chanchal, Kannur, 06/10/2000

Keerthana, Wayanad, 12/05/2000

Ankitha, Malappuram, 04/03/2000

```
prog.py
       import csv
       with open('final.csv', 'r') as file:
        reader = csv.reader(file)
        for row in reader:
               print(row)
OUTPUT
C:\Users\chanc\OneDrive\Desktop>cd Python
C:\Users\chanc\OneDrive\Desktop\Python>notepad final.csv
C:\Users\chanc\OneDrive\Desktop\Python>notepad prog.py
C:\Users\chanc\OneDrive\Desktop\Python>python prog.py
 'Name', 'Place', 'DOB']
'Chanchal', 'Kannur', '06/10/2000']
'Keerthana', 'Wayanad', '12/05/2000']
'Ankitha', 'Malappuram', '04/03/2000']
```