**FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM**

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**FOCUS ON EXCELLENCE**

**20MCA131 PROGRAMMING LAB LABORATORY RECORD**

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**Semester: 1 Batch: A Roll No: 33**

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**FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM**

**HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577**



**FOCUS ON EXCELLENCE**

**CERTIFICATE**

*This is to certify that this is a Bonafede record of the Practical work done by* ***ANUPAMA RAJU*** *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 examination ………………………**

Signature of Signature of

Internal Examiner External Examiner

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# Course Outcome 1 Programs

**PROGRAM 1**

**AIM**

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

**PROGRAM CODE:**

y1=int(input('Enter current year:'))

y2=int(input('Enter the ending year:'))

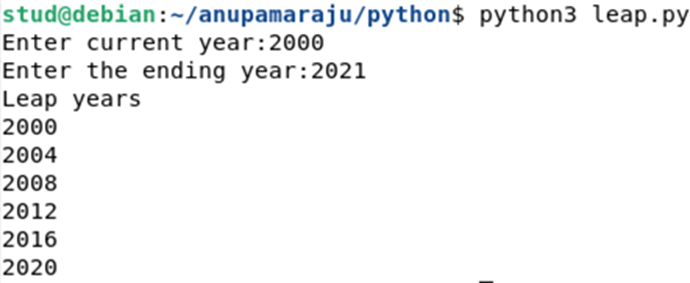
print("Leap years")

for year in range(y1,y2):

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

print(year)

## OUTPUT



## PROGRAM 2(a)

## AIM

List comprehensions:

Generate positive list of numbers from a given list of integers

## PROGRAM

list=[-5,3,6,8,0,-1]

print(list)

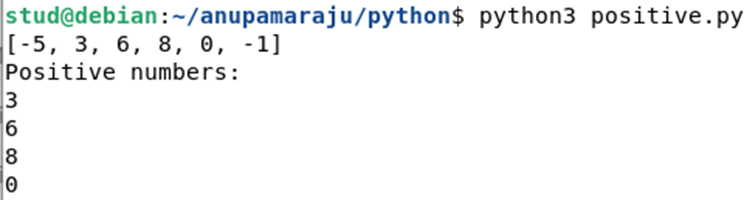
print("Positive numbers:")

for num in list:

 if num>=0:

  print(num)

## OUTPUT



**PROGRAM 2(b)**

**AIM**

Square of N numbers

**PROGRAM**

list=[1,2,3,4,5]

print(list)

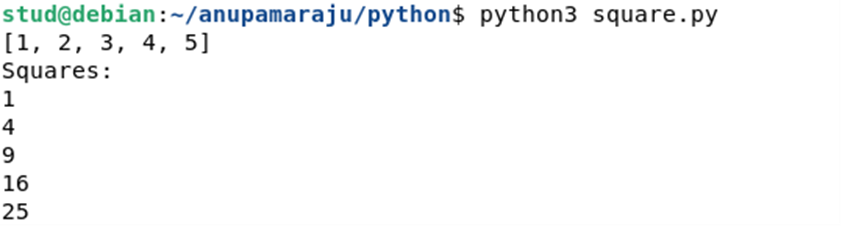
print("Squares:")

for i in list:

 sq=i\*i

 print(sq)

## OUTPUT



**PROGRAM 2(c)**

**AIM**

Form a list of vowels selected from a given word

## PROGRAM

list=[]

s=("Orange")

print(s)

for i in s:

if i in ("aeiouAEIOU"):

list.append (i)

print(list)

## OUTPUT



## PROGRAM 2(d)

## AIM

List ordinal value of each element of a word (Hint: use ord() to get ordinal values)

## PROGRAM

list=[]

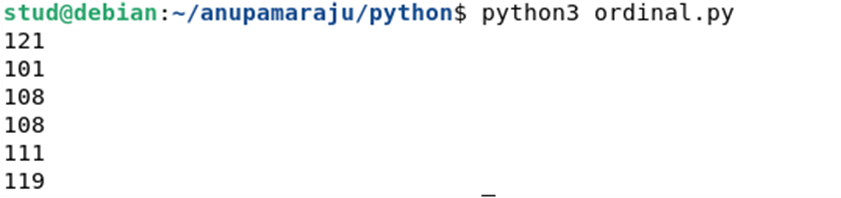
s=("yellow")

for i in s:

x=ord(i)

print(x)

## OUTPUT



**PROGRAM 3**

**AIM**

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

## PROGRAM

s="Hello all python is all is all"

l=s.split()

d={x:l.count(x) for x in l}

print(d)

## OUTPUT

## C:\Users\hp\Pictures\Screenshots\Screenshot (247).png

**PROGRAM 4**

## AIM

Prompt the user for a list of integers. For all values greater than 100, store ‘over’ instead.

**PROGRAM**

list=[]

n=int(input('Enter the limit:'))

print("enter the integers:")

for i in range(0,n):

 j=int(input())

 if j>100:

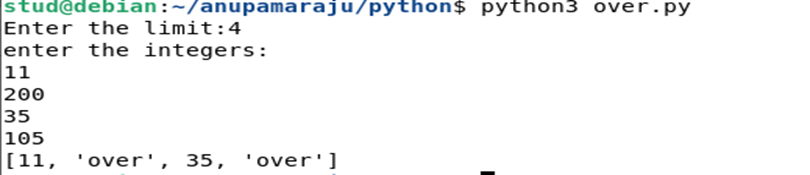
        list.append("over")

   else:

        list.append(j)

print(list)

## OUTPUT



**PROGRAM 5**

**AIM**

Store a list of first names. Count the occurrences of ‘a’ within the list

## PROGRAM

list=[]

r=0

s=("anu,angel,appu,jonu,athira")

print(s)

print("count is:")

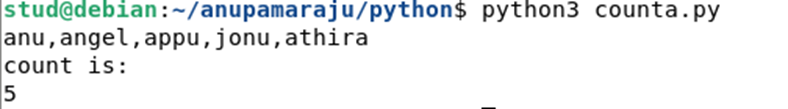
for i in s:

if i in "a":

r=r+1

print(r)

## OUTPUT

****

**PROGRAM 6**

**AIM**

Enter 2 lists of integers. Check

(a) Whether list is of same length

(b) Whether list sums to same value

(c) Whether any value occur in both

## PROGRAM

l1=[10,12,13,14,15]

l2=[5,10,16,20,25]

print(l1)

print(l2)

x=len(l1)

y=len(l2)

if x==y:

    print("List are of same length")

else:

    print("List length is different")

sum1=0

sum2=0

for i in l1:

    sum1=sum1+i

print("Sum of first list:",sum1)

for j in l2:

    sum2=sum2+j

print("Sum of second list:",sum2)

if sum1==sum2:

    print("List sums are same")

else:

    print("List sums are different")

flag=0

for i in l1:

    if i in l2:

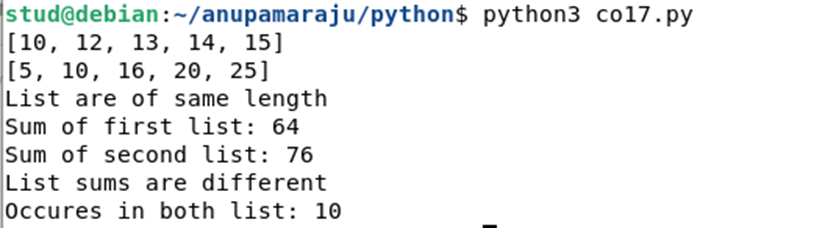
        print("Occures in both list:",i)

        flag=1

if flag==0:

    print("No common elements")

**OUTPUT**

****

**PROGRAM 7**

**AIM**

Get a string from an input string where all occurrences of first character replaced with

‘$’, except first character.

[eg: onion -> oni$n]

## PROGRAM

str1=input('Enter a string:')

print("Orginal string:",str1)

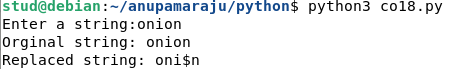
char=str1[0]

str1=str1.replace(char,"$")

str1=char+str1[1:]

print("Replaced string:",str1)

**OUTPUT**

****

**PROGRAM 8**

**AIM**

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

[eg: python -> nythop]

## PROGRAM

s=input("Enter a string:")

t=s[0]

t1=s[-1]

n=len(s)

ns=t1+s[1:n-1]+t

print("New string:",ns)

## OUTPUT

****

**PROGRAM 9**

**AIM**

Accept the radius from user and find area of circle.

## PROGRAM

p=int(input('Enter the radius'))

A=3.14\*p\*p

print(A)

## OUTPUT

****

**PROGRAM 10**

**AIM**

Find biggest of 3 numbers entered.

## PROGRAM

a=int(input('enter the value of a'))

b=int(input('enter the value of b'))

c=int(input('enter the value of c'))

if a>b:

    if a>c:

        print(a)

    else:

        print(c)

else:

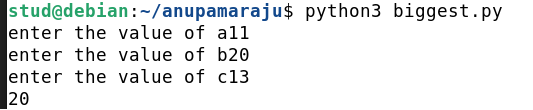
    if b>c:

        print(b)

    else:

        print(c)

## OUTPUT

****

**PROGRAM 11**

**AIM**

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

## PROGRAM

import os

a=input("Enter the file name:")

print("The extension of file",a,"is",os.path.splitext(a))

## OUTPUT

****

**PROGRAM 12**

**AIM**

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

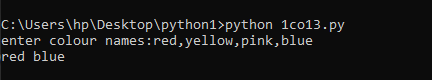
## PROGRAM

str=input("enter colour names:")

list=str.split(',')

print(list[0],list[-1])

## OUTPUT

****

**PROGRAM 13**

**AIM**

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

## PROGRAM

a=(input("enter a number"))

print(" ",a)

b=a+a

print("",b)

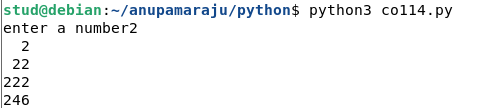
c=a+a+a

print(c)

d=int(a)+int(b)+int(c)

print(d)

## OUTPUT

****

**PROGRAM 14**

**AIM**

Print out all colors from color-list1 not contained in color-list2.

## PROGRAM

clist1=['red','green','yellow','pink']

clist2=['blue','black','red','white']

print(clist1)

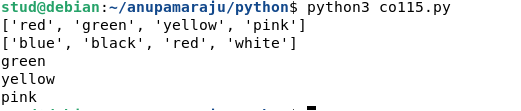
print(clist2)

for i in clist1:

    if i not in clist2:

        print(i)

## OUTPUT

****

**PROGRAM 15**

**AIM**

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

## PROGRAM

str1=input("Enter string1:")

str2=input("Enter string2:")

temp=str1[0]

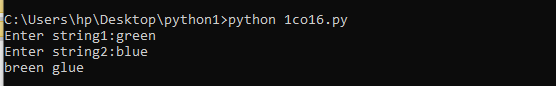
str1=str1.replace(str1[0],str2[0])

str2=str2.replace(str2[0],temp)

str=str1+" "+str2

print(str)

## OUTPUT

****

**PROGRAM 16**

**AIM**

Sort dictionary in ascending and descending order.

## PROGRAM

d={1:2,3:4,4:3,2:1,0:0}

list1=list(d.items())

dict=dict(list1)

print("Dictionary=",dict)

list1.sort()

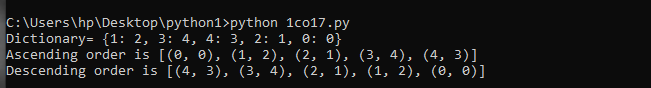
print('Ascending order is',list1)

list1=list(d.items())

list1.sort(reverse=True)

print('Descending order is',list1)

## OUTPUT

****

**PROGRAM 17**

**AIM**

Merge two dictionaries.

## PROGRAM

d1={"name":"anu","age":"21"}

d2={"sex":"f","qual":"pg"}

d1.update(d2)

print(d1)

## OUTPUT



**PROGRAM 18**

**AIM**

Find GCD of 2 numbers.

## PROGRAM

n1=int(input('Enter the first number: '))

n2=int(input('Enter the second number: '))

z=min(n1,n2)

gcd=0

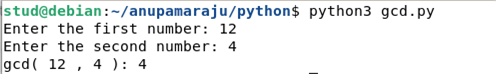
for i in range(1,z+1):

    if((n1%i==0)and(n2%i==0)):

        gcd=i

print("gcd(",n1,",",n2,"):",gcd)

## OUTPUT

****

**PROGRAM 19**

**AIM**

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

## PROGRAM

list=[12,13,14,15,16,21]

l1=[]

print(list)

print("New list")

for i in list:

    if i%2!=0:

        l1.append(i)

print(l1)

## OUTPUT

****

**Course Outcome 2 Programs**

**PROGRAM 20**

**AIM**

Program to find the factorial of a number.

## PROGRAM

fact=1

n=int(input('enter the value'))

for i in range(1,n+1):

fact=fact\*i

print(fact)

## OUTPUT



**PROGRAM 21**

**AIM**

Generate Fibonacci series of N terms.

## PROGRAM

f1=0

f2=1

n=int(input('enter the limit'))

print(f1)

print(f2)

for i in range(2,n):

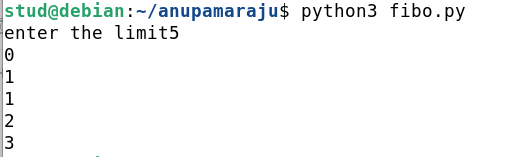
f3=f1+f2

print(f3)

f1=f2

## f2=f3

## OUTPUT



**PROGRAM 22**

**AIM**

Find the sum of all items in a list.

## PROGRAM

list=[2,3,4,5,6]

print("list:",list)

sum=0

for i in list:

sum=sum+int(i)

print("sum:",sum)

OUTPUT

C:\Users\hp\Downloads\co23.png

**PROGRAM 23**

## AIM

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

## PROGRAM

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):

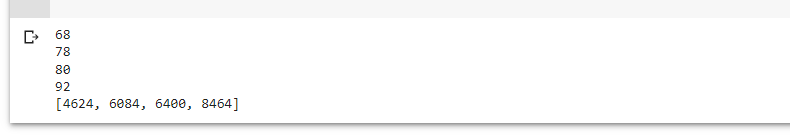
if((k\*\*2)==j):

list1.append(j)

print(k)

print(list1)

## OUTPUT

****

**PROGRAM 24**

**AIM**

Display the given pyramid with step number accepted from user.

Eg: N=4

1

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

## PROGRAM

l=int(input('Enter the limit:'))

for i in range(1,l+1):

for j in range(1,i+1):

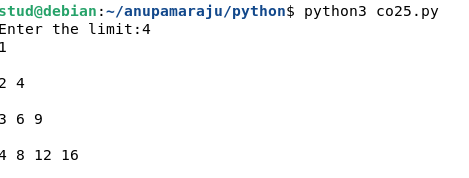
c=i\*j

print(c,end=" ")

print("\n")

## 

## OUTPUT



**PROGRAM 25**

**AIM**

Count the number of characters in a string.

## PROGRAM

string="Always Be Happy"

count=0

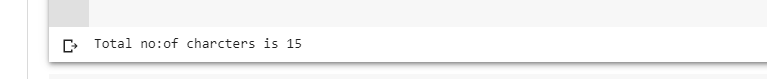
for i in range(0,len(string)):

if(string!=""):

count=count+1

print("Total no:of charcters is",count)

## OUTPUT

****

**PROGRAM 26**

**AIM**

Add ‘ing’ at the end of a given string. If it already ends with ‘ing’, then add

‘ly’.

## PROGRAM

w=input("enter the word:")

l=len(w)

l1=w[l-3:l]

if(l1=='ing'):

s=w+"ly"

else:

s=w+"ing"

print(s)

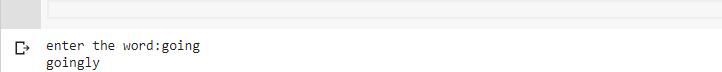
'''s="javapoint"

print(s)

print(s[:-2])

'''

## OUTPUT

C:\Users\hp\Pictures\Screenshots\Screenshot (149).png

**PROGRAM 27**

**AIM**

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

## PROGRAM

list=[]

length=[]

print("enter 5 words")

for i in range (5):

str=input()

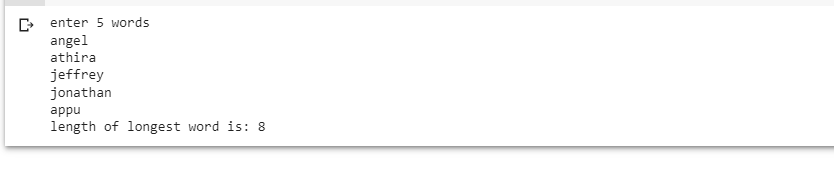
list.append(str)

for j in list:

length.append(len(j))

print("length of longest word is:",max(length))

**OUTPUT**



**PROGRAM 28**

**AIM**

Construct following pattern using nested loop

\*

* \*
* \* \*
* \* \* \*
* \* \* \* \*
* \* \* \*
* \* \*
* \*

\*

**PROGRAM**

for i in range(0,5):

for j in range(i+1):

print("\*",end=" ")

print("\n")

for i in range(i+1,0,-1):

for j in range(0,i-1):

print("\*",end=" ")

print("\n")

**OUTPUT**



**PROGRAM 29**

**AIM**

Generate all factors of a number.

## PROGRAM

n=int(input("Enter a number:"))

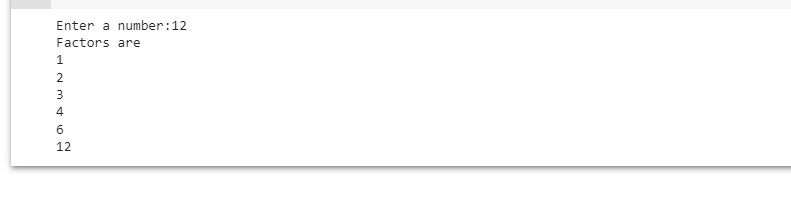
print("Factors are")

for i in range(1,n+1):

if(n%i==0):

print(i)

## OUTPUT



# Course Outcome 3 Programs

## PROGRAM 30

## AIM

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)

## PROGRAM

**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(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))

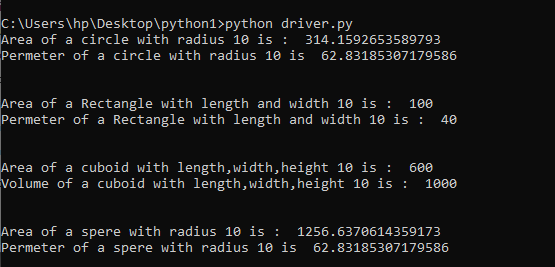
print("Volume of a cuboid with length,width,height 10 is : ",cuboid.volume\_cuboid(10,10,10))

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



# Course Outcome 4 Programs

## PROGRAM 31

## AIM

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

**PROGRAM**

class Rectangle:

def \_\_init\_\_(self,l,b):

self.l=l

self.b=b

def area(self):

return self.l\*self.b

def peri(self):

return 2\*(self.l+self.b)

r1=Rectangle(20,6)

r2=Rectangle(8,10)

x=r1.area()

print("Area of first rectangle",x)

y=r2.area()

print("Area of second rectangle",y)

x1=r1.peri()

print("Perimeter of first rectangle:",x1)

y1=r2.peri()

print("Perimeter of second rectangle:",y1)

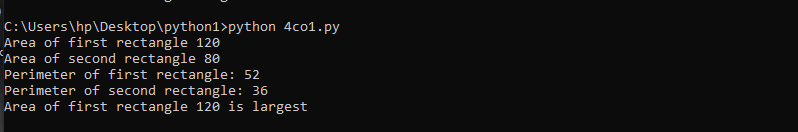
if(x>y):

print("Area of first rectangle",x,"is largest")

else:

print("Area of second rectangle",y,"is largest" )

## OUTPUT



## PROGRAM 32

## AIM

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.

## PROGRAM

class Bank:

def \_\_init\_\_(self,acno,name,actype,bal):

self.acno=acno

self.name=name

self.actype=actype

self.bal=bal

def deposit(self,amt):

self.bal=self.bal+amt

print("Balance after deposite:",self.bal)

def withdraw(self,amt):

self.bal=self.bal-amt

print("After withdraw:",self.bal)

def display(self):

print("......................")

print("Account no:",self.acno)

print("Name:",self.name)

print("Account type:",self.actype)

print("Balance amount:",self.bal)

b1=Bank(123,"Athira","Savings",10000)

b2=Bank(456,"Ryan","Savings",20000)

b1.display()

b1.deposit(5000)

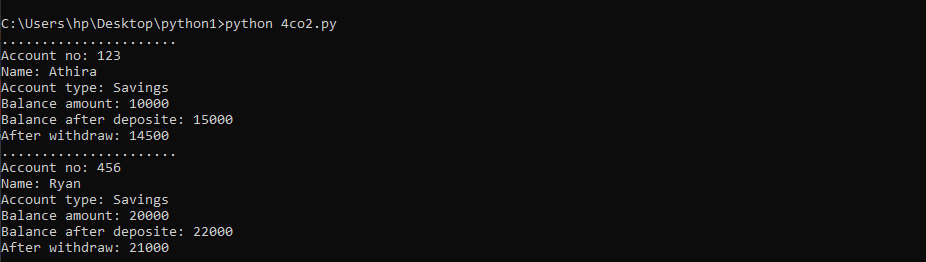
b1.withdraw(500)

b2.display()

b2.deposit(2000)

b2.withdraw(1000)

## OUTPUT



## PROGRAM 33

## AIM

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,length,breadth):

self.\_\_length = length

self.\_\_breadth = breadth

def area(self):

a=self.\_\_length \* self.\_\_breadth

print("Area:",a)

return a

def \_\_lt\_\_(self,rr):

if (self.\_\_length\*self.\_\_breadth>rr.\_\_length\*rr.\_\_breadth):

return True

else:

return False

r1=Rectangle(5,20)

r2=Rectangle(6,12)

if(r1<r2):

print("Area of first rectangle is greater")

else:

print("Area of second rectangle is greater")

## OUTPUT

C:\Users\hp\Pictures\Screenshots\Screenshot (212).png

## PROGRAM 34

## AIM

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

## PROGRAM

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

## OUTPUT

C:\Users\hp\Pictures\Screenshots\Screenshot (214).png

## PROGRAM 35

## AIM

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.

## PROGRAM

class Publisher(object):

def \_\_init\_\_(self,name):

self.name=name

def display1(self):

print(self.name)

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()

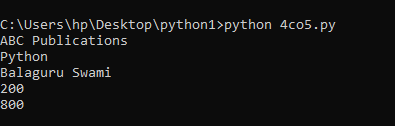
print(self.price)

print(self.no\_of\_pages)

p=Python("ABC Publications","Python","Balaguru Swami",200,800)

p.display3()

## OUTPUT



# Course Outcome 5 Programs

**PROGRAM 36**

**AIM**

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

## PROGRAM

fp=open("text\_file.txt",'r')

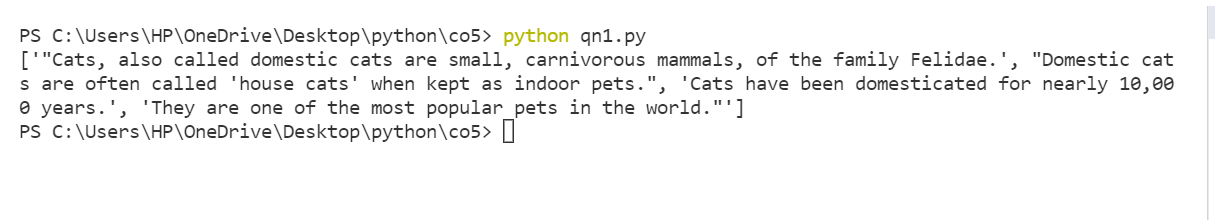
lines=[]

for line in fp:

lines.append(line.strip())

print(lines)

## OUTPUT



## PROGRAM 37

## AIM

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

## PROGRAM

import csv

with open('people.csv', 'r') as file:

reader = csv.reader(file)

for row in reader:

print(row)

## OUTPUT

## 