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

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ANGAMALY-683577



'FOCUS ON EXCELLENCE'

PYTHON PROGRAMMING LAB LABORATORY RECORD

Name: ARAVIND M.A.

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: SEMESTER -1 A Roll No. 36

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SCIENCE AND TECHNOLOGY

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University Exam.Reg. No: FIT21MCA-2036

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FOCUS ON EXCELLENCE CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done and submitted to Kerala Technological University in partial fulfillment for the award of the Master Of Computer Applications is a record of the original research work done by **ARAVIND M. A.** in the **PYTHON** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022.

and recrinology during the academic year 20	21 2022.
Signature of Staff in Charge	Signature of H.O.D
Name: JOICE T	Name: DEEPA MARY MATHEWS
Date:	
Date of University practical examination	••••••
Signature of	Signature of
Internal Examiner	External Examiner

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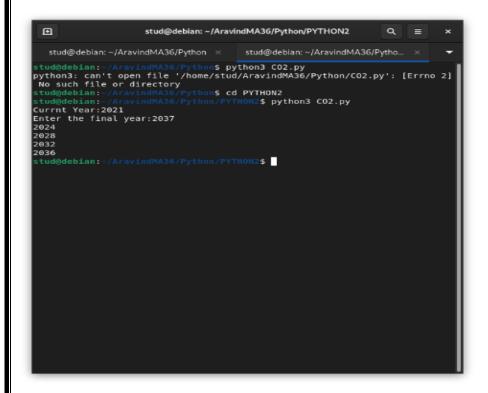
Department of Computer Applications	
COURSE	
OUTCOME-1	

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

CODE:

```
print("Current Year:2021")
p=int(input("Enter the final year:"))
if p<2021:
    print("Date should be greater than 2021!!")

for p in range(2021, p+1):
    if p%400==0 or p%4==0 and p%100!=0:
        print(p)
```



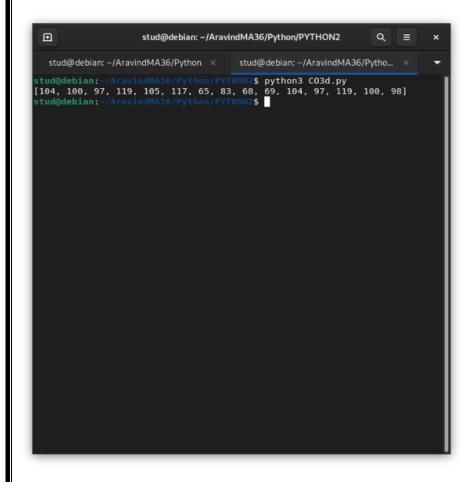
EXPERIMENT 2 <u>AIM:</u> Generate positive list of numbers from a given list of integers. **CODE:** list=[12,-89,-98,58,69,-1,45] for i in range(0,7): if list[i]>0: print(list[i]) **OUTPUT** ⅎ stud@debian: ~/AravindMA36/Python/PYTHON2 ≡ stud@debian: ~/AravindMA36/Python × stud@debian: ~/AravindMA36/Pytho... stud@debian:~/AravindMA36/Python/PYTHON2\$ python3 CO3a.py stud@deblan.)... 12 58 69 45 stud@debian:~/AravindMA36/Python/PYTHON2\$

EXPERIMENT 3 <u>AIM:</u> Print square of N numbers. **CODE:** list=[2,34,5,6,7,8,12] for i in range(0,7): print(list[i]*list[i]) **OUTPUT:** stud@debian: ~/AravindMA36/Python/PYTHON2 stud@debian: ~/AravindMA36/Python × stud@debian: ~/AravindMA36/Pytho... × stud@debian:~/AravindMA36/Python/PYTHON2\$ python3 CO3b.py 4 1156 25 36 49 64 144 stud@debian:-/AravindMA36/Python/PYTHON2\$

EXPERIMENT 4 AIM: Form a list of vowels selected from a given word. **CODE:** lst=[] str='apple' p=len(str) for i in range(0,p): if str[i] in ("aeiouAEIOU"): lst.append(str[i]) print(lst) **OUTPUT:** ⊡ stud@debian: ~/AravindMA36/Python/PYTHON2 Q stud@debian: ~/AravindMA36/Python × stud@debian: ~/AravindMA36/Pytho... stud@debian:~/AravindMA36/Python/PYTHON2\$ python3 CO3c.py ['a', 'e'] stud@debian:~/AravindMA36/Python/PYTHON2\$

<u>AIM:</u> List ordinal value of each element of a word (Hint: use ord() to get ordinal values)

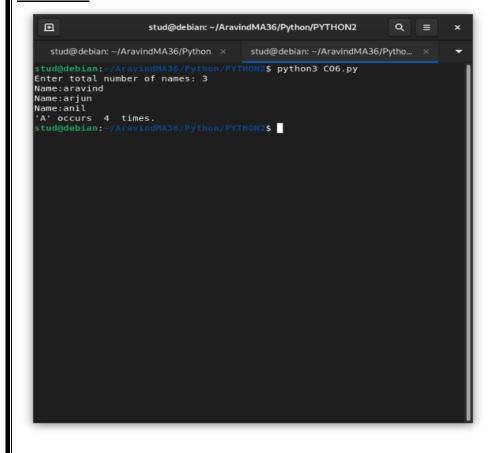
CODE:



EXPERIMENT 6 AIM: Count the occurrences of each word in a line of text. **CODE:** arr=[] print("Enter ten integer:") for i in range(0,10): k=int(input("->")) if k>100: arr.append("over") else: arr.append(k) print(arr) **OUTPUT:** ⅎ stud@debian: ~/AravindMA36/Python/PYTHON2 ≡ stud@debian: ~/AravindMA36/Python × stud@debian: ~/AravindMA36/Pytho... × stud@debian:~/AravindMA36/Python/PYTHON2\$ python3 CO5.py Enter ten integer: >123 ->12 ->34 [12, 'over', 'over', 'over', 5, 32, 'over', 12, 34, 5] stud@debian:~/AravindMA36/Python/PYTHON2\$

<u>AIM:</u> Prompt the user for a list of integers. For all values greater than 100, store 'over' instead.

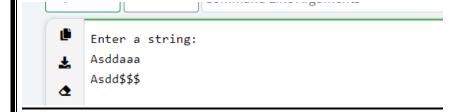
CODE:



EXPERIMENT 8 AIM: Store a list of first names. Count the occurrences of 'a' within the list **CODE:** p1=[1,13,15,4] p2=[12,5,5,7] i=0if len(p1) = len(p2): print("Same number of elements (",len(p1), " and ", len(p2),")") else: print("Diffeernt number of elements") sum1=sum(p1)sum2=sum(p2)if sum1==sum2: print("Sum is same") else: print("Sum is different(",sum1," and ",sum2,")") for i in p1: if i in p2: print("Same number-> ", i) j=j+1; if j==0: print("No common value") **OUTPUT:** stud@debian: ~/AravindMA36/Python/PYTHON2

<u>AIM:</u> Get a string from an input string where all occurrences of first character replaced with "\$', except first character.

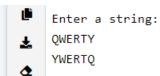
CODE:



<u>AIM:</u> Create a string from given string where first and last characters exchanged.

CODE:

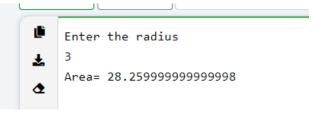
```
var=input("Enter a string: ")
beg=var[0]
end=var[len(var)-1]
dum=beg
beg=end
end=dum
print(beg+var[1:len(var)-1]+end)
```



AIM: Accept the radius from user and find area of circle.

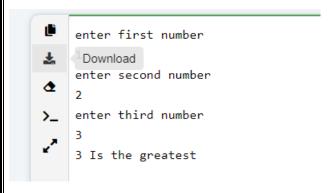
CODE:

```
p=int (input("Enter the radius"))
ar=3.14*p*p
print("Area=",ar)
```



AIM: Find biggest of 3 numbers entered.

CODE:



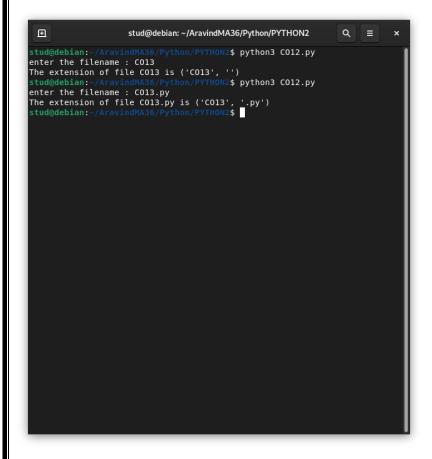
<u>AIM:</u> Accept a file name from user and print extension of that.

CODE:

import os

a=input("enter the filename : ")

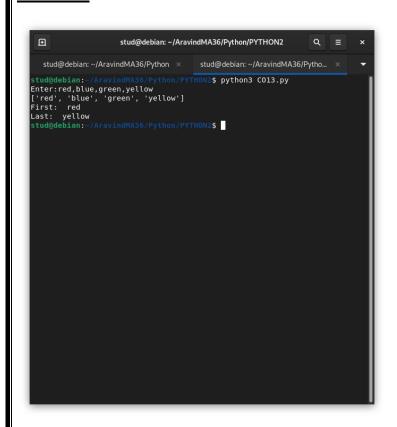
print("The extension of file",a, "is",os.path.splitext(a))



<u>AIM:</u> Create a list of colors from comma-separated color names entered by user. Display first and last colors.

CODE:

```
color=[]
color=[i for i in input("Enter:").split(',')]
print(color)
for i in color:
    m1=color[0]
    m2=color[len(color)-1]
print("First: ",m1,"\nLast: ",m2)
```



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

CODE:

```
num=input("Enter a number:")
dum1=num+num+num
dum2=num+num
dum3=num
print(dum1," ",dum2," ",dum3)
print(int(dum1)+int(dum2)+int(dum3))
```

```
stud@debian:-/AravindMA36/Python/PYTHON2$ python3 CO14.py
Enter a number:23
234669
stud@debian:-/AravindMA36/Python/PYTHON2$ python3 CO14.py
File "/home/stud/AravindMA36/Python/PYTHON2$ python3 CO14.py
File "nhome/stud/AravindMA36/Python/PYTHON2$ python3 CO14.py
Enter a number:23
232323 2323 23
234669
stud@debian:-/AravindMA36/Python/PYTHON2$

Stud@debian:-/AravindMA36/Python/PYTHON2$
```

EXPERIMENT 16 <u>AIM</u>: Print out all colors from color-list1 not contained in color-list2. **CODE:** clr1=['red','blue','yellow','pink','green','grey'] clr2=['blue','brown','violet','pink','orange','green'] for i in clr1: if i not in clr2: print(i) **OUTPUT:** red yellow

<u>**AIM:**</u> Create a single string separated with space from two strings by swapping the character at position 1.

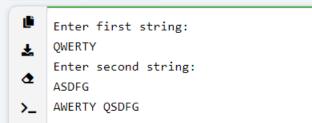
CODE:

```
s1=input("Enter first string:")
```

s2=input("Enter second string:")

$$g{=}s2[0]{+}s1[1:]{+}""{+}s1[0]{+}s2[1:]$$

print(g)



EXPERIMENT 18 AIM: Merge two dictionaries. **CODE:** d={"name":"Aravind", "age":"27"} e={"sex":"Male", "Qual":"degree"} d.update(e) print(d["name"]) **OUTPUT:** Aravind 27 ¥ ** Process syitad - Roturn Codo.

AIM: Find gcd of 2 numbers.

CODE:

```
num1=int(input("First number: "))
num2=int(input("Second number: "))
if(num1<num2):
dum=num1
num1=num2
num2=dum
for i in range(1,num2+1):
  if(num1%i==0) and (num2%i==0):
    gcd=i
print("gcd=",gcd)</pre>
```

```
First number:

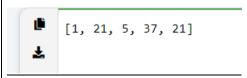
27
Second number:

82
> gcd= 1
```

<u>AIM:</u> From a list of integers, create a list removing even numbers.

CODE:

```
p=[1,12,21,24,4,5,37,21]
q=[]
for i in p:
if i%2!=0:
q.append(i)
print(q)
```



AIM: Program to find the factorial of a number

CODE

```
p=int(input("Enter a number "))
fact=1
for p in range(1,p+1):
  fact=fact*p
print(fact)
```

```
56 Is the greatest
stud@debian:~/AravindMA36$ python3 fact.py
Enter a number 8
40320
stud@debian:~/AravindMA36$
```

```
EXPERIMENT 22
AIM: Generate Fibonacci series of N terms
CODE
trm=int(input("Enter number of terms"))
p=0
q=1
print(p)
print(q)
for trm in range(1, trm-1):
      out=p+q
      print(out)
      p=q
      q=out
OUTPUT
    enter iirst number ø
    enter second number 56
    enter third number 41
    56 Is the greatest
    stud@debian:~/AravindMA36$ python3 fact.py
    Enter a number 8
    40320
    stud@debian:~/AravindMA36$ python3 fiban.py
    Enter number of terms8
    1
    1
    2
    3
    5
    8
    13
    stud@debian:~/AravindMA36$
```

EXPERIMENT 23 AIM: Find the sum of all items in a list **CODE** a=[15,58,66,-99,456,-66,95] print(sum(a))**OUTPUT** SUM= 525

<u>AIM:</u> Generate a list of four-digit numbers in a given range with all their digits even and the number is a perfect square.

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
stud@debian:~/AravindMA36/Python/PYTHON2$ python3 CO2_4.py
78
80
92
[4624, 6084, 6400, 8464]
stud@debian:~/AravindMA36/Python/PYTHON2$
```

EXPERIMENT 25 <u>AIM:</u> Display the given pyramid with the step number accepted from the user. **Eg:** N=4 1 24 369 4 8 12 16 **CODE:** ht=int(input("Enter height:")) for i in range(1,ht+1): for j in range(1,i+1): print((j*i)," ",end="") print("\n") **OUTPUT** Enter height: 1 3 6 9 4 8 12 16

<u>AIM:</u> Count the number of characters (character frequency) in a string.

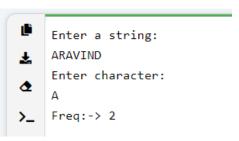
CODE

```
str=input("Enter a string:")
fnd=input("Enter character:")
cnt=0
str=str.lower()
fnd=fnd.lower()
for i in str:
  if i==fnd:
```

OUTPUT

cnt = cnt + 1

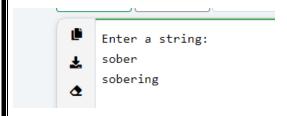
print("Freq:->",cnt)



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

CODE

```
a=input("Enter a string:")
l=len(a)
if a[l-3]=='i' and a[l-2]=='n' and a[l-1]=='g':
  print(a+'ly')
else:
  print(a+'ing')
```

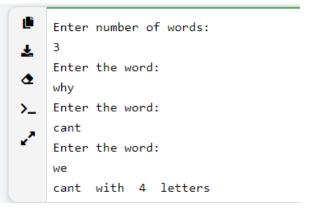


AIM: Accept a list of words and return length of longest word.

CODE

```
cnt=int(input("Enter number of words:"))
a=[]
com=0
for i in range(0,cnt):
    nw=input("Enter the word:")
a.append(nw)

for i in range(0,cnt):
    cmp=len(a[i])
    if cmp>com:
    com=cmp
    j=i
print(a[j]," with ",com," letters")
```



EXPERIMENT 29 <u>AIM:</u> Construct following pattern using nested loop *** *** ** **CODE** ht=int(input("Enter height:")) for i in range(0,ht): for j in range(0,i+1): print("* ",end="") print("\n") for k in range(0,ht): for 1 in range(0,j-k): print("* ",end="") $print("\n")$

<u>OUTPUT</u>				
	Enter height:			
±	4 *			
☆ >_	* *			
2	* * *			
	* * *			
	* * *			
	* *			
	*			

AIM: Generate all factors of a number.

CODE

```
num=int(input("Enter a number:"))
```

fact=[]

for i in range(1,num):

if num%i==0:

fact.append(i)

print(fact)

```
stud@debian: ~/AravindMA36/Python/PYTHON2

stud@debian: ~/AravindMA36/Python/PYTHON2$ python3 CO2_10.py
Enter a number: 42
[1, 2, 3, 6, 7, 14, 21]
stud@debian: ~/AravindMA36/Python/PYTHON2$ python3 CO2_10.py
Enter a number: 58
[1, 2, 29]
stud@debian: ~/AravindMA36/Python/PYTHON2$ python3 CO2_10.py
Enter a number: 79
[1]
stud@debian: ~/AravindMA36/Python/PYTHON2$
```

<u>Aim:</u> Create a package graphics with modules rectangle, circle and sub-package 3D graphics with module 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.

Terminal(Windows):

```
mkdir graphics

cd graphics

notepad rectangle

notepad circle

notepad __init__.py

mkdir dgraphics

cd dgraphics

notepad __init__.py

notepad cuboid.py

notepad sphere.py
```

CODE

1) Rectangle

```
class Rectangle:

def __init__(self,length,width):

self.length=length

self.width=width

def area(self):

return (self.length*self.width)

def perimeter(self):

return (2*(self.length+self.width))
```

```
2) Circle
   global pi pi=3.1416
   class Circle:
     global pi
     pi=3.1416
     def __init__(self,radius):
       self.radius=radius
     def area(self):
      return (pi*(self.radius* self.radius))
     def perimeter(self):
      return (2*pi*self.radius)
3) Sphere
   global pi
   pi=3.1416
   class Sphere:
     def __init__(self,radius):
      self.radius=radius
     def volume(self):
      r=self.radius return ((4/3)*pi*(r**3))
     def area(self):
       r=self.radius
       return (4*pi*(r**2))
4) Cuboid
   class Cuboid:
     def __init__(self,length,width,height):
      self.l=length
      self.w=width
      self.h=height
     def volume(self):
      return (self.l*self.w*self.h)
   def area(self):
     l=self.l
     w=self.w
     h=self.h
     return (2*((1*w)+(w*h)+(1*h)))
```

CODE from graphics import rectangle as rt from graphics import circle from graphics dgraphics import * r=rt.Rectangle(10,12) print("RECTANGLE\n") print("length =",r.length) print("width =",r.width) print("area=",r.area()) print("perimeter=",r.perimeter()) c=circle.Circle(12) print("CIRCLE\n") print("radius =",c.radius) print("area=",c.area()) print("perimeter=",c.perimeter()) s=sphere.Sphere(12) print("SPHERE") print("radius =",s.radius) print("area=",s.area()) print("volume=",s.volume()) cu=cuboid.Cuboid(13,11,14) print("CUBOID\n") print("length =",cu.l) print("width =",cu.w) print("height =",cu.h) print("area=",cu.area()) print("volume=",cu.volume())

```
RECTANGLE
length = 10
width = 12
area= 120
perimeter= 44
CIRCLE
radius = 12
area= 452.3904
perimeter= 75.3984
SPHERE
radius = 12
area= 1809.5616
volume= 7238.246399999999
CUBOID
length = 13
width = 11
height = 14
area= 958
volume= 2002
```

Department of Computer Applications
COURSE OUTCOME-4

<u>AIM:</u> Create Rectangle class with attributes length and breadth and methods to find area and perimeter. Compare to rectangle objects by their area.

CODE

```
class Rectangle:
         def init (self,ln,br):
                   self.ln=ln
                   self.br=br
         def area(self):
                   p=self.ln*self.br
                   return p
         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 frist rectangle= ",r1.perim())
print("Perimeter of second rectangle= ",r2.perim())
m=r1.area()
n=r2.area()
if m>n:
         print("First rectangle has the largest area")
else:
         print("Second rectangle has the largest area")
```

```
Enter length of the first rectangle:12
Enter breadth of the first rectangle:34
Enter length of the second rectangle:55
Enter breadth of the second rectangle:12
Perimeter of frist rectangle= 92
Perimeter of second rectangle= 134
Second rectangle has the largest area
>
```

<u>AIM:</u> Create Bank account with members account number, name, type of account and balance. Write constructor and methods to deposite at the bank and withdraw an amount from the bank.

CODE

```
bnkno=1000
holders=[10]
ptr=0
class Bank:
         def __init__(self,accno,accnme,acctype,accbal):
                  self.accno=accno
                  self.accnme=accnme
                  self.acctype=acctype
                  self.accbal=accbal
         def deposit(self,dep):
                  self.accbal=self.accbal+dep
                  print("Amount deposited")
         def withdraw(self,wit):
                  if self.accbal>=wit:
                           self.accbal=self.accbal-wit
                           print("Balance: ",self.accbal)
                  else:
                           print("Insufficient balance.")
1=0
while(l==0):
         ch=int(input("Enter choice\n1.New
acc\n2.Withdraw\n3.Deposit\n4.Exit\n"))
         if ch==1:
                  name=input("Enter name:")
                  tipe=input("Enter Acc type:")
                  start=int(input("Enter the amount:"))
                  holders[ptr]=(Bank(bnkno,name,tipe,start))
                  bnkno+=1
                  print("Acc no:",bnkno)
                  ptr+=1
         if ch==2:
                  srch1=int(input("Enter Acc: no:"))
                  srch1=srch1-1001
                  amt1=int(input("Enter Amount:"))
                  holders[srch1].withdraw(amt1)
         if ch==3:
                  srch1=int(input("Enter Acc: no:"))
                  srch1=srch1-1001
                  amt1=int(input("Enter Amount:"))
                  holders[srch1].deposit(amt1)
         if ch==4:
                  1+=1
```

```
Enter choice
1.New acc
2.Withdraw
3.Deposit
4.Exit
Enter name:qwe
Enter Acc type:asd
Enter the amount:123
Acc no: 1001
Enter choice
1.New acc
 2.Withdraw
3.Deposit
4.Exit
Enter Acc: no:1001
Enter Amount:12
Balance: 111
Enter choice
1.New acc
2.Withdraw
3.Deposit
4.Exit
Enter Acc: no:1001
Enter Amount:21
Amount deposited
```

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

```
CODE
class Rectangle:
  def __init__(self,l,b):
     self.__length=l
     self.__width=b
  def __lt__(self,ob):
     if((self.__length*self.__width)<(ob.__length*ob.__width)):
       return True
     else:
       return False
r1=Rectangle(15,12)
r2=Rectangle(34,44)
if(r1<r2):
  print("Area of r1<area of r2")</pre>
elif(r2 < r1):
  print("Area of r2<area of r1")</pre>
else:
  print("Area of r1=area of r2")
```

0	<u>UTPUT</u>
	Shell
	Area of r1 <area of="" r2=""/>

<u>Aim</u>: Create a class Time with private attributes hour,minute and second. Overload '+' operator to find sum of two time.

```
CODE
```

```
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()
```

```
Shell

Hour : 32

Minute : 39

Second : 67

> |
```

<u>Aim:</u> Create a class Publisher(name). Derive class Book from Publisher with attributes title and author. Derive class python from Book with attributes price and number_of_pages. Write a program that displays information about a Python book. Use base class constructor invocation and method overreading.

```
CODE
```

```
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","Python Programming","Mr.abc",100,500)
p1.print_function()
p2=Book("a","b","c")
p2.print_function()
```

```
Name : Novel
Title : Roadside Picnic
Auther : Arkady Strugatsky
Price : 200
Number of Pages : 350
```

Department of Computer Applications
COURSE OUTCOME-5

<u>Aim</u>: Write a program to read a file line by line and store it into a list **CODE**

a.txt

On January 15, 2001, <u>Jimmy Wales</u>^[6] and <u>Larry Sanger</u> launched Wikipedia; Sanger coined its name as a <u>portmanteau</u> of "wiki" and "encyclopedia." Wales was influenced by the "<u>spontaneous order</u>" ideas associated with <u>Friedrich Hayek</u> and the <u>Austrian School</u> of economics, after being exposed to these ideas by Austrian economist and <u>Mises Institute</u> Senior Fellow <u>Mark Thornton</u>. Initially available only in English, versions in other languages were quickly developed. Its combined editions comprise more than 58 million articles, attracting around 2 billion unique device visits per month and more than 17 million edits per month (1.9 edits per second) as of November 2020. In 2006, <u>Time</u> magazine stated that the policy of allowing anyone to edit had made Wikipedia the "biggest (and perhaps best) encyclopedia in the world."

OUTPUT

C:\Users\aravi\Desktop>python3 prog.py

['On January 15, 2001, Jimmy Wales[6] and Larry Sanger launched Wikipedia; Sanger coined its name as a portmanteau of "w iki" and "encyclopedia."[7][8] Wales was influenced by the "spontaneous order" ideas associated with Friedrich Hayek and the Austrian School of economics, after being exposed to these ideas by Austrian economist and Mises Institute Senior F ellow Mark Thornton.[9] Initially available only in English, versions in other languages were quickly developed. Its com bined editions comprise more than 58 million articles, attracting around 2 billion unique device visits per month and mo re than 17 million edits per month (1.9 edits per second) as of November 2020.[10][11] In 2006, Time magazine stated that the policy of allowing anyone to edit had made Wikipedia the "biggest (and perhaps best) encyclopedia in the world."[1 2]']

<u>Aim:</u> Write a Python program to read each row from a given csv file and print a list of strings.

CODE

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

a.csv

```
Id,Name,Desig,Salary
001,Aravind M,Manager,100000
002,Aravind S,Secretary,30000
003,Arjun,Deputy Manager,25000
```

```
C:\Users\aravi\Desktop>python3 prog.py
['Id', 'Name', 'Desig', 'Salary']
['001', 'Aravind M', 'Manager', '100000']
['002', 'Aravind S', 'Secretary', '30000']
['003', 'Arjun', 'Deputy Manager', '25000']
```