FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

20MCA131 PROGRAMMING LAB LABORATORY RECORD

Name: ANAMIKA C P

Branch: MASTER OF COMPUTER APPLICATIONS

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FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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CERTIFICATE

*This is to certify that this is a Bonafide record of the Practical work done by **ANAMIKA C P (FIT21MCA-2019)** 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

Name:

Signature of H OD

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

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CO1

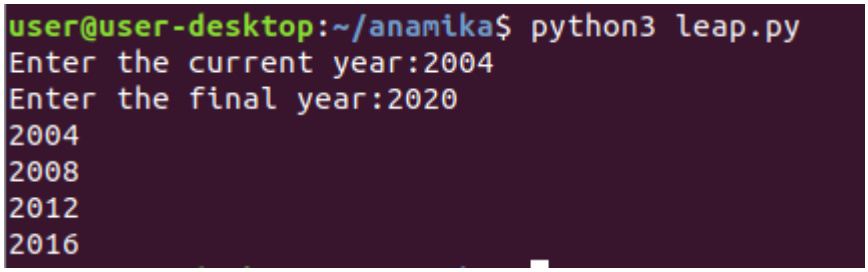
1. **Aim**:

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

Input

```
current_year=int(input("Enter the current year:"))
final_year=int(input("Enter the final year:"))
for year in range(current_year,final_year):
  if(year%400==0)or(year%100!=0)and(year%4==0):
    print(year)
```

Output



2.List comprehensions:

(a) **Aim**:

Generate positive list of numbers from a given list of integers.

Input

```
list=[10,-5,4,-8,35,67,-22]
for num in list:
  if num>0:
    print(num)
```

Output

```
user@user-desktop:~/anamika$ python3 positive.py
10
4
35
67
```

(b) **Aim**:

Square of N numbers

Input

```
lst=[]
n=int(input("Enter a number:"))
for num in range(1,n+1):
  num=num*num
  lst.append(num)
print(lst)
```

Output

```
user@user-desktop:~/anamika$ python3 squarenumbers.py
Enter a number:5
[1, 4, 9, 16, 25]
```

(c) **Aim**:

Form a list of vowels selected from a given word

Input

```
L=[]
s="India is my country"
for i in s:
  if i in ("aeiouAEIOU"):
    L.append(i)
print(L)
```

Output

```
user@user-desktop:~/anamika$ python3 vowels.py
['I', 'i', 'a', 'i', 'o', 'u']
```

(d) **Aim**:

List ordinal value of each element of a word

Input

```
ordinal=input("Enter a word:")
print("The ASCII value of the letters in the word is")
for letter in ordinal:
  n=ord(letter)
  print(n)
```

Output

```
user@user-desktop:~/anamika$ python3 ordinal.py
Enter a word:anamika
The ASCII value of the letters in the word is
97
110
97
109
105
107
97
```

3. **Aim**:

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

Input

```
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

```
user@user-desktop:~/anamika$ python3 occurrence.py
Enter a string:hello good night hello good
hello    2
good     2
night    1
```

4. **Aim**:

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

Input

```
lst=[]
n=int(input("Enter an integer:"))
print("Integer numbers are")
for i in range(0,n):
  j=int(input())
  if j>100:
    lst.append("over")
  else:
    lst.append(j)
print(lst)
```

Output

```
user@user-desktop:~/anamika$ python3 over.py
Enter an integer:4
Integer numbers are
120
30
165
45
['over', 30, 'over', 45]
```

5. **Aim**:

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

Input

```
list1=["anamika","anagha","athira"]
count=0
for word in list1:
  for letter in word:
    if letter=="a":
      count=count+1
print("The occurences of 'a' within the list is "+str(count))
```

Output

```
user@user-desktop:~/anamika$ python3 firstnames.py
The occurences of 'a' within the list is 8
```

6. **Aim**:

Enter 2 list of integers. Check (a) Whether list are of same length (b) whether list sums to same value (c) whether any value occur in both.

Input

```
l1=[2,4,6,8,10]
l2=[3,5,7,9,10]
print(l1)
print(l2)
if len(l1)==len(l2):
  print("Lists are of same length")
else:
  print("Lists are of different length")
s1=0
s2=0
for i in range(len(l1)):
  s1=s1+l1[i]
print("Sum of first list is",s1)
for j in range(len(l2)):
  s2=s2+l2[j]
print("Sum of second list is",s2)
if (s1==s2):
  print("Sum of lists is same")
else:
  print("Sum of lists are different")
for i in l1:
  if i in l2:
    print(i,"occurs in both list")
```

Output

```
user@user-desktop:~/anamika$ python3 same.py
[2, 4, 6, 8, 10]
[3, 5, 7, 9, 10]
Lists are of same length
Sum of first list is 30
Sum of second list is 34
Sum of lists are different
10 occurs in both list
```

7. **Aim**:

Get a string from an input string where all occurrences of first character replaced with '$', except first character. [eg: onion->oni$n]

Input

```
str1=input("Enter a string:")
print("Original string:",str1)
char=str1[0]
str1=str1.replace(char,'$')
str1=char+str1[1:]
print("String:",str1)
```

Output

```
user@user-desktop:~/anamika$ python3 string.py
Enter a string:onion
Original string: onion
String: oni$n
```

8. **Aim**:

Create a string from given string where first and last characters exchanged. [eg: python->nythop]

Input

```
s="python"
t=s[0]
t1=s[-1]
n=len(s)
rs=t1+s[1:n-1]+t
print(rs)
```

Output

```
user@user-desktop:~/anamika$ python3 reverseletter.py
nythop
```

9. **Aim**:

Accept the radius from user and find area of circle.

Input

```
r=int(input("Enter the radius:"))
a=3.14*r*r
print("Area of circle is",a)
```

Output

```
user@user-desktop:~/anamika$ python3 areaofcircle.py
Enter the radius:4
Area of circle is 50.24
```

10. **Aim**:

Find biggest of 3 numbers entered.

Input

```
a=int(input("Enter the first number:"))
b=int(input("Enter the second number:"))
c=int(input("Enter the third number:"))
if a>b:
  if a>c:
    print(a)
  else:
    print(c)
else:
  if b>c:
    print(b)
  else:
    print(c)
```

Output

```
user@user-desktop:~/anamika$ python3 biggest.py
Enter the first number:9
Enter the second number:34
Enter the third number:12
34
```

11. **Aim**:

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

Input

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

Output

```
user@user-desktop:~/anamika$ python3 extension.py
Enter the file name:swap.py
The extension of file swap.py is ('swap', '.py')
```

12. **Aim**:

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

Input

```
list1=[]
string=input("Enter colors separated by comma:\n")
for i in string.split(","):
  list1.append(i)
print("First and last colors in the list are",list1[0],"and",list1[-1])
```

Output

```
user@user-desktop:~/anamika$ python3 13.py
Enter colors separated by comma:
Red,Yellow,Green,Blue
First and last colors in the list are Red and Blue
```

13. **Aim**:

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

Input

```
x=int(input("Enter an integer:"))
n1=str(x)
n2=n1+n1
n3=n2+n1
result=int(n1)+int(n2)+int(n3)
print(result)
```

Output

```
user@user-desktop:~/anamika$ python3 14.py
Enter an integer:4
492
```

14. **Aim**:

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

Input

```
l1=["red","green","blue","maroon","peach","orange"]
l2=["white","green","maroon","black"]
print(l1)
print(l2)
for i in l1:
  if i not in l2:
    print(i)
```

Output

```
user@user-desktop:~/anamika$ python3 colourlist.py
['red', 'green', 'blue', 'maroon', 'peach', 'orange']
['white', 'green', 'maroon', 'black']
red
blue
peach
orange
```

15. **Aim**:

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

Input

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

Output

```
user@user-desktop:~/anamika$ python3 swap.py
Enter first string:Anamika
Enter second string:Pradeep
Pnamika Aradeep
```

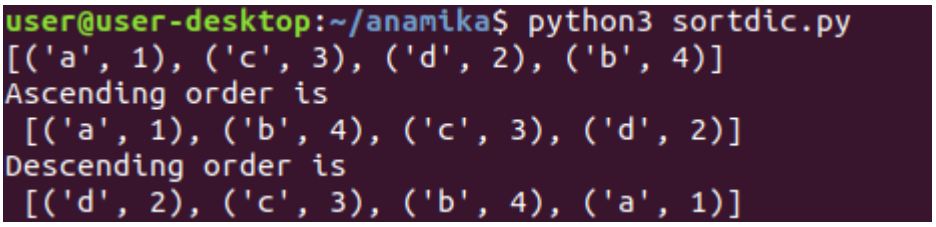
16. **Aim**:

Sort dictionary in ascending and descending order.

Input

```
dict1={"a":1,"c":3,"d":2,"b":4}
l=list(dict1.items())
print(l)
l.sort()
print("Ascending order is\n",l)
l=list(dict1.items())
l.sort(reverse=True)
print("Descending order is\n",l)
```

Output



17. **Aim**:

Merge two dictionaries.

Input

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

Output

```
user@user-desktop:~/anamika$ python3 mergedic.py
{'Name': 'Athidhi', 'Age': 25, 'Gender': 'F', 'Qualification': 'PG'}
```

18. **Aim**:

Find gcd of 2 numbers.

Input

```
x=int(input("Enter first number:"))
y=int(input("Enter second number:"))
if x>y:
  s=y
else:
  s=x
for i in range(1,s+1):
  if(x%i==0)and(y%i==0):
    hcf=i
print(hcf)
```

Output

```
user@user-desktop:~/anamika$ python3 gcd.py
Enter first number:12
Enter second number:4
4
```

19. **Aim**:

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

Input

```
l1=[1,2,3,4,5,6]
l2=[]
for i in l1:
  if i%2!=0:
    l2.append(i)
print(l2)
```

Output

```
user@user-desktop:~/anamika$ python3 evenremove.py
[1, 3, 5]
```

CO2

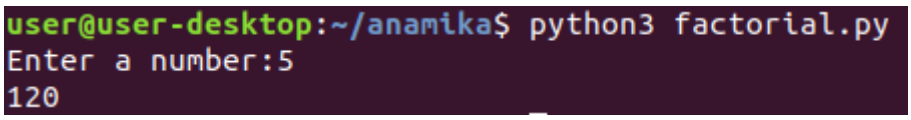
1. **Aim**:

Program to find the factorial of a number.

Input

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

Output



2. **Aim**:

Generate Fibonacci series of N terms.

Input

```
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
```

Output

```
user@user-desktop:~/anamika$ python3 fibonacci.py
Enter a number:7
0
1
1
2
3
5
8
```

3. **Aim**:

Find the sum of all items in a list.

Input

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

Output

```
user@user-desktop:~/anamika$ python3 listsum.py
15
```

4. **Aim**:

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

Input

```
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

```
user@user-desktop:~/anamika$ python3 perfectsq.py
68
78
80
92
[4624, 6084, 6400, 8464]
```

5. **Aim**:

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

Eg: N=4

1

2 4

3 6 9

4 8 12 16

Input

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

Output

```
user@user-desktop:~/anamika$ python3 stepnumber.py
Enter a number:5
1

2       4

3       6       9

4       8       12      16

5       10      15      20      25
```

6. **Aim**:

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

Input

```
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

```
user@user-desktop:~/anamika$ python3 count.py
Enter a string:characters
c       : 2
h       : 1
a       : 2
r       : 2
t       : 1
e       : 1
s       : 1
```

7. **Aim**:

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

Input

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

Output

```
user@user-desktop:~/anamika$ python3 ing.py
Enter a string:subtract
subtracting
```

8. **Aim**:

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

Input

```
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

```
user@user-desktop:~/anamika$ python3 longest.py
Enter the range:4
Enter the words:
good
bad
gloomy
upset
Length of longest word is 6
```

9. **Aim**:

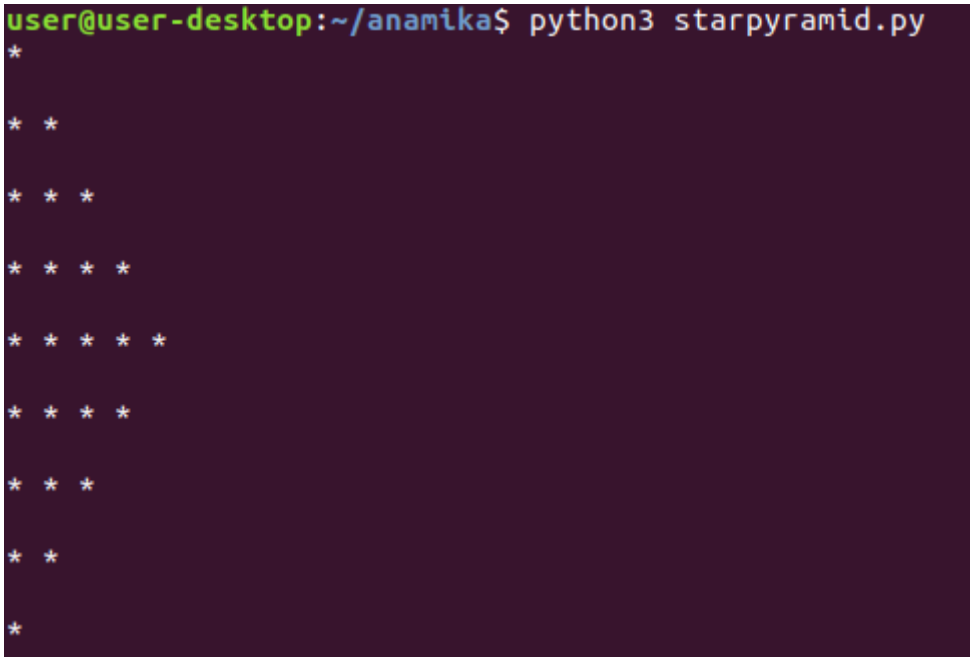
Construct following pattern using nested loop.

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

Input

```
k='*'
for i in range(1,6):
  for j in range(1,i+1):
    print(k,end="")
  print("\n")
for i in range(4,0,-1):
  for j in range(1,i+1):
    print(k,end="")
  print("\n")
```

Output



10. **Aim**:

Generate all factors of a number.

Input

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

Output

```
user@user-desktop:~/anamika$ python3 factor.py
Enter a number:12
Factors are
1
2
3
4
6
12
```

CO3

1. **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)

Input

circle.py

```
from math import pi
def area_circle(radius):
        return pi*radius*radius
def perimeter_circle(radius):
        return 2*pi*radius
```

rectangle.py

```
def area_rec(length,width):
        return length*width
def perimeter_rec(length,width):
        return 2*(length+width)
```

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
```

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

```
import Graphics
from Graphics import circle,rectangle
from Graphics.threedgraphics import cuboid,sphere
from Graphics.circle import *
print("Area of the Circle : ",circle.area_circle(12))
print("Perimeter of the Circle : ",circle.perimeter_circle(12))
print("\n")

print("Area of the Rectangle : ",rectangle.area_rec(14,8))
print("Perimeter of the Rectangle : ",rectangle.perimeter_rec(14,8))
```

```
print("\n")


print("Area of the Cuboid : ",cuboid.area_cuboid(8,8,8))
print("Volume of the Cuboid : ",cuboid.volume_cuboid(8,8,8))
print("\n")


print("Area of the Sphere : ",sphere.area_sphere(6))
print("Perimeter of the Sphere : ",sphere.perimeter_sphere(6))
```

```
C:\Users\useresq\Desktop\Anamika>cd Python

C:\Users\useresq\Desktop\Anamika\Python>md Graphics

C:\Users\useresq\Desktop\Anamika\Python>cd Graphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad __init__.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad circle.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>notepad rectangle.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics>md threedgraphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics>cd threedgraphics

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad __init__
.py

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad cuboid.p
y

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>notepad sphere.p
y

C:\Users\useresq\Desktop\Anamika\Python\Graphics\threedgraphics>cd ..

C:\Users\useresq\Desktop\Anamika\Python\Graphics>cd ..
```

Output

```
C:\Users\useresq\Desktop\Anamika\Python>python graphics.py
Area of the Circle :  452.3893421169302
Perimeter of the Circle :  75.39822368615503


Area of the Rectangle :  112
Perimeter of the Rectangle :  44


Area of the Cuboid :  384
Volume of the Cuboid :  512


Area of the Sphere :  452.3893421169302
Perimeter of the Sphere :  37.69911184307752
```

CO4

1. **Aim**:

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

Input

```
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)
r1=Rectangle(6,4)
r2=Rectangle(10,7)
x=r1.area()
y=r2.area()
z=r1.perimeter()
w=r2.perimeter()
print("Area of rectangle1 is",x)
print("Area of rectangle2 is",y)
print("Perimeter of rectangle1 is",z)
print("Perimeter of rectangle2 is",w)
if(x>y):
```

```
        print("Area of rectangle 1 is larger")
else:
                print("Area of rectangle 2 is larger")
```

Output

```
user@user-desktop:~/anamika$ python3 rectangle.py
Area of rectangle1 is 24
Area of rectangle2 is 70
Perimeter of rectangle1 is 20
Perimeter of rectangle2 is 34
Rectangle 2 is larger
```

2. **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.

Input

```
class bank:
        def __init__(self,acc_no,name,acc_type,balance):
                self.acc_no=acc_no
                self.name=name
                self.type=acc_type
                self.balance=balance
        def withdrawal(self,x):
                self.balance=self.balance-x
                print("Balance amount after withdrawal:",self.balance)
        def deposit(self,y):
                self.balance=self.balance+y
                print("Balance amount after deposit:",self.balance)
        def display(self):
                print("Account Number:",self.acc_no)
                print("Account Name:",self.name)
                print("Account Type:",self.type)
                print("Account Balance:",self.balance)


account1=bank(1234,"Anu","Savings",25000)
account2=bank(3456,"Ammu","Savings",5000)
account3=bank(7890,"Anju","Savings",15000)
account4=bank(4587,"Athira","Savings",4000)
account1.deposit(10000)
```

account1.withdrawal(2000)

account2.deposit(5000)

account2.withdrawal(1000)

account3.deposit(15000)

account3.withdrawal(3000)

account4.deposit(20000)

account4.withdrawal(10000)

Output

```
user@user-desktop:~/anamika$ python3 bank.py
Balance amount after deposit: 35000
Balance amount after withdrawal: 33000
Balance amount after deposit: 10000
Balance amount after withdrawal: 9000
Balance amount after deposit: 30000
Balance amount after withdrawal: 27000
Balance amount after deposit: 24000
Balance amount after withdrawal: 14000
```

3. **Aim**:

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

Input

```
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)
        def __lt__(self,r2):
                if(self.length*self.breadth<r2.length*r2.breadth):
                        return True
                else:
                        return False
r1=Rectangle(10,6)
r2=Rectangle(6,4)
x=r1.area()
y=r2.area()
z=r1.perimeter()
w=r2.perimeter()
print("Area of rectangle 1 is",x)
print("Area of rectangle 2 is",y)
print("Perimeter of rectangle 1 is",z)
print("Perimeter of rectangle 2 is",w)
if(r1<r2):
```

```
        print("Rectangle 1 is smaller")
else:
        print("Rectangle 2 is smaller")
```

Output

```
user@user-desktop:~/anamika$ python3 rectangle1.py
Area of rectangle 1 is 60
Area of rectangle 2 is 24
Perimeter of rectangle 1 is 32
Perimeter of rectangle 2 is 20
Area of Rectangle 2 is smaller
```

4. **Aim**:

Create a class Time with private attributes hour, minute and second. Overload '-' operator to find sum of two time.

Input

```
class Time:
        def __init__(self,hour,minute,second):
                self.__hour=hour
                self.__minute=minute
                self.__second=second
        def __add__(self,t2):
                a=self.__hour=t1.__hour+t2.__hour
                b=self.__minute=t1.__minute+t2.__minute
                c=self.__second=t1.__second+t2.__second
                print("The Sum of Two Times is",a,b,c)
t1=Time(2,40,15)
t2=Time(5,12,20)
t3=t1+t2
```

Output

```
user@user-desktop:~/anamika$ python3 time.py
The Sum of Two Times is 7 52 35
```

5. **Aim**:

Create a class Publisher(name). Derive a 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 overriding.

Input

```
class Publisher:
        def __init__(self,name):
                self.name=name


class Book(Publisher):
        def __init__(self,name,title,author):
                super().__init__(name)
                self.title=title
                self.author=author
        def display(self):
                print("Name:",self.name)
                print("Title:",self.title)
                print("Author:",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 display(self):
                print("Name:",self.name)
```

```
        print("Title:",self.title)
        print("Author:",self.author)
        print("Price:",self.price)

        print("Number of Pages:",self.no_of_pages)

p1=Python("Khanna Publishing House","TamingPython","Jeeva Jose",200,500)
p1.display()
p2=Book("ABC Publications","Python For Everybody","CharlesSeverence")
p2.display()
```

Output

```
user@user-desktop:~/anamika$ python3 book.py
Name: Khanna Publishing House
Title: Taming Python
Author: Jeeva Jose
Price: 200
Number of Pages: 500
Name: ABC Publications
Title: Python For Everybody
Author: Charles Severence
```

CO5

1. **Aim**:

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

Input

```
f=open("data_file.txt","w")
f.write("India")
f.write("\n")
f.write("Kerala")
f.close()

f=open("data_file.txt","r")
for x in f.readlines():
        print(x)
```

Output

```
user@user-desktop:~/anamika$ python3 co51.py
India

Kerala
```

2. **Aim**:

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

Input

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

Output

```
user@user-desktop:~/anamika$ python3 co53.py
['Name', 'Age', 'Profession']
['James', '38', 'Doctor']
['Paul', '29', 'Engineer']
['Ancy', '36', 'Professor']
['Rincy', '27', 'Manager']
['John', '35', 'Programmer']
['Mariya', '24', 'Accountant']
```