

Roll No : 7824
Assignment No : 1
Assignment Name : Write a Python program to display Name
and Address Of Student

Program:

```
a = str(input("Enter First Name:"))  
  
b = str(input("Enter Last Name:"))  
  
c = str(input("Enter Your Address:"))  
  
print("Your Name is:{0} {1}".format(a,b))  
  
print("Your Address is :"+c)
```

Output:

```
runfile ('C:/Users/DELL/3D  
Objects/python/Assignment/Assi_1.py', wdir='C:/Users/DELL/3D  
Objects/python/Assignment')  
  
Enter First Name: Rushi  
  
Enter Last Name: Kore  
  
Enter Your Address: Shirdhon,416121.  
  
Your Name is: Rushi Kore  
  
Your Address is: Shirdhon,416121.
```

Roll No : 7824
Assignment No : 2
Assignment Name : Write a Python program to accept two numbers and perform basic Arithmetic operation on these no.

Program:

```
a = float(input("Enter First No:"))  
b = float(input("Enter Last No:"))  
  
c= a+b  
d= a-b  
e= a*b  
f= a/b  
g= a//b  
h= a%b  
  
print("Addition of {0} and {1} is :{2}".format(a,b,c))  
print("Subtraction of {0} and {1} is :{2}".format(a,b,d))  
print("Multiplication of {0} and {1} is :{2}".format(a,b,e))  
print("Division(float) of {0} and {1} is:{2}".format(a,b,f))  
print("Division(floor) of {0} and {1} is:{2}".format(a,b,g))  
print("Modulus of {0} and {1} is :{2}".format(a,b,h))
```

Output:

```
runfile('C:/Users/DELL/3D  
Objects/python/Assignment/Assi_2.py', wdir='C:/Users/DELL/3D  
Objects/python/Assignment')
```

Enter First No:10

Enter Last No:20

Addition of 10.0 and 20.0 is :30.0

Subtraction of 10.0 and 20.0 is :-10.0

Multiplication of 10.0 and 20.0 is :200.0

Division(float) of 10.0 and 20.0 is :0.5

Division(floor) of 10.0 and 20.0 is :0.0

Modulus of 10.0 and 20.0 is :10.0

Roll No : 7824
Assignment No : 3
Assignment Name : Write a menu driven program in python
to Convert temperature

Program:

```
print("for Fahrenheit to Celsius press:1")
print("for Celsius to Fahrenheit press:2")
print("for exit press:3")

def rk1(num):
    if(num ==1):
        d=float(input("Enter Fahrenheit value"))
        c=((d-32)*5)/9
        print("Celsius value is:",c)
    elif(num ==2):
        d=float(input("Enter Celsius value"))
        c= (d*1.8)+32
        print("Fahrenheit value is :",c)

no = int(input("Choose Operation:"))
rk1(no)
```

Output:

```
runfile('C:/Users/DELL/3D Objects/python/Assignment/Assi_3.py',  
wdir='C:/Users/DELL/3D Objects/python/Assignment')
```

for Fahrenheit to Celsius press:1

for Celsius to Fahrenheit press:2

for exit press:3

Choose Opertion:1

Enter Fahrenheit value 25

Celsius value is: -3.888888888888889

Choose Opertion:2

Enter Celsius value 41

Fahrenheit value is: 105.8

Choose Opertion:3

Roll No : 7824
Assignment No : 4
Assignment Name : Write a Python program to calculate
Factorial of given no.

Program:

```
def fact(n):  
    if (n==1 )or (n==0):  
        return 1  
    else:  
        s=n * fact(n - 1)  
        return s  
  
num = float(input("Enter a No:"))  
fact(num)  
print("Factorial of",num,"is",fact(num))
```

Output:

```
runfile('C:/Users/DELL/3D Objects/python/Assignment/Assi_4.py',  
wdir='C:/Users/DELL/3D Objects/python/Assignment')
```

Enter a No:5

Factorial of 5.0 is 120.0

Roll No : 7824

Assignment No : 5

Assignment Name : Write a program to create a list of n numbers and separate those no in two different lists (even and odd) using user defined function

Program:

```
def even(list):  
    print ("Original list is:", list)  
    l1= []  
    l2= []  
    for i in list:  
        if (i%2 == 0):  
            l1. append(i)  
        else:  
            l2. append(i)  
    print ("list of even:", l1)  
    print ("list of odd:", l2)  
list = []  
n = int (input ("Enter number of elements: "))  
for i in range (0, n):  
    element = int (input ())  
    list.append(element)  
even(list)
```

Output:

```
runfile('C:/Users/DELL/3D  
Objects/python/Assignment/Assi_5.py', wdir='C:/Users/DELL/3D  
Objects/python/Assignment')
```

Enter number of elements: 5

10

15

20

25

30

Original list is: [10, 15, 20, 25, 30]

list of even: [10, 20, 30]

list of odd: [15, 25]

Roll No : 7824
Assignment No : 6
Assignment Name : Write a program to display maximum number and minimum number from given list

Program:

#maximum

```
def maximum_check(x):
```

```
    max_v = x [0]
```

```
    for i in x:
```

```
        if i > max_v:
```

```
            max_v = i
```

```
    return max_v
```

minimum number

```
def minimum_check(x):
```

```
    min_v = x[0]
```

```
    for i in x:
```

```
        if i < min_v:
```

```
            min_v = i
```

```
    return min_v
```

```
list = [ ]
```

```
n = int (input ("Enter number of elements: "))
```

```
for i in range (0, n):
```

```
        element = int(input ())
        list.append(element)
maximum_check(list)
minimum_check(list)
print("Maximum of the list", maximum_check(list))
print("Minimum of the list", minimum_check(list))
```

Output:

```
runfile('C:/Users/DELL/3D
Objects/python/Assignment/Assi_6.py', wdir='C:/Users/DELL/3D
Objects/python/Assignment')
```

Enter number of elements: 4

10

20

30

40

Maximum of the list 40

Minimum of the list 10

Roll No : 7824
Assignment No : 7
Assignment Name : Write a Python program to demonstrate Slicing

Program:

```
print("slicing for list")
list = [ ]
n = int (input ("Enter size of List : "))
print("Enter Element of List:")
for i in range (0, n):
    element = int(input ())
    list.append(element)
print("originl list is:",list)
m = int(input("Enter slicing Start value:"))
n = int(input("Enter slicing Stop value:"))
k = int(input("Enter slicing Step value:"))
print("slicing from {} to {} with step {}".format(m,n,k))
print(list[m:n:k])
```

```
print("slicing for tuple")
tuple=tuple(list)
print("Original tuple is:",tuple)
m = int(input("Enter slicing Start value:"))
n = int(input("Enter slicing Stop value:"))
k = int(input("Enter slicing Step value:"))
```

```
print("slicing from {} to {} with step {}".format(m,n,k))
print(tuple[m:n:k])
```

```
kk =str(input("Enter a String value"))
print("Original String is:",kk)
m = int(input("Enter slicing Start value:"))
n = int(input("Enter slicing Stop value:"))
k = int(input("Enter slicing Step value:"))
print("slicing from {} to {} with step {}".format(m,n,k))
print(kk[m:n:k])
```

Output:

```
runfile('C:/Users/DELL/3D
Objects/rk_1/python/Assignment/Assi_7.py',
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assignment')
```

slicing for list

Enter size of List : 5

Enter Element of List:

1

2

3

4

5

originl list is: [1, 2, 3, 4, 5]

Enter slicing Start value:1

Enter slicing Stop value:5

Enter slicing Step value:2

slicing from 1 to 5 with step 2:
[2, 4]

slicing for tuple
Original tuple is: (1, 2, 3, 4, 5)
Enter slicing Start value:1
Enter slicing Stop value:5
Enter slicing Step value:2
slicing from 1 to 5 with step 2:
(2, 4)

Enter a String value: ram
Original String is: ram
Enter slicing Start value:1
Enter slicing Stop value:2
Enter slicing Step value:1
slicing from 1 to 2 with step 1:
r

Roll No : 7824
Assignment No : 8
Assignment Name : Write a Python program to demonstrate Set operation.

Program:

```
print("First set")
my_set1 = set()
n = int (input ("Enter size of Set : "))
print("Enter {0} Element of Set :".format(n))
for i in range(0,n):
    e = int(input())
    # Adding num to my_set
    my_set1.add(e)
print(my_set1)

print("Second set")
my_set = set()
n = int (input ("Enter size of Set : "))
print("Enter {0} Element of Set :".format(n))
for i in range(0,n):
    e = int(input())

# Adding num to my_set
my_set.add(e)
```

```
print(my_set)
```

```
print("For Union of set press:1")
```

```
print("For Intersection of set press:2")
```

```
print("For Difference of set press:3")
```

```
print("For Symmetric Difference of set press:4")
```

```
print("For Exit press:5 ")
```

```
no = int(input("Choose Opertion:"))
```

```
while(no):
```

```
    if(no == 1):
```

```
        print("Union of set1 and set 2 is:")
```

```
        print(my_set1.union(my_set))
```

```
        no = int(input("Choose Opertion:"))
```

```
    elif(no == 2):
```

```
        print(" Intersection of set1 and set 2 is:")
```

```
        print(my_set1.intersection(my_set))
```

```
        no = int(input("Choose Opertion:"))
```

```
    elif(no == 3):
```

```
        print("Difference of set1 and set 2 is:")
```

```
        print(my_set1-my_set)
```

```
        no = int(input("Choose Opertion:"))
```

```
    elif(no == 4):
```

```
        print("Symmetric Difference of set1 and set 2 is:")
```

```
        c =my_set1^my_set
```

```
print(c)
no = int(input("Choose Opertion:"))
else:
    StopIteration
```

Output

```
runfile('C:/Users/DELL/3D
Objects/rk_1/python/Assignment/Assi_8.py',
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assignment')
```

First set

Enter size of Set : 5

Enter 5 Element of Set :

10

20

30

40

50

{40, 10, 50, 20, 30}

Second set

Enter size of Set : 5

Enter 5 Element of Set :

25

30

40

10

20

{40, 10, 20, 25, 30}

For Union of set press:1

For Intersection of set press:2

For Difference of set press:3

For Symmetric Difference of set press:4

For Exit press:5

Choose Opertion:1

Union of set1 and set 2 is:

{40, 10, 50, 20, 25, 30}

Choose Opertion:2

Intersection of set1 and set 2 is:

{40, 10, 20, 30}

Choose Opertion:3

Difference of set1 and set 2 is:

{50}

Choose Opertion:4

Symmetric Difference of set1 and set 2 is:

{50, 25}

Choose Opertion:5

Roll No : 7824
Assignment No : 9
Assignment Name : Write a Python program to print current date and time.

Program:

```
from datetime import datetime as r
```

```
# Getting current date and time
```

```
now = r.now()
```

```
s=now.strftime("%d %b %Y")
```

```
print("Today Date is:",s)
```

```
p=now.strftime("%H:%M:%S")
```

```
print("Current Time is:",p)
```

Output:

```
runfile('C:/Users/DELL/3D  
Objects/rk_1/python/Assi_9_13/Assi_9.py',  
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assi_9_13')
```

```
Today Date is: 22 Dec 2022
```

```
Current Time is: 14:04:08
```

Roll No : 7824
Assignment No : 10
Assignment Name : Write a Python program to print Today's
Year, Month, and Date

Program:

```
from datetime import date

today = date.today()
print("Current Year:", today.year)

s=today.strftime("%b")
print("Current Month:", s)

print("Current Day:", today.day)
```

Output:

```
runfile('C:/Users/DELL/3D
Objects/rk_1/python/Assi_9_13/Assi_10.py',
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assi_9_13')

Current Year: 2022
Current Month: Dec
Current Day: 22
```

Roll No : 7824
Assignment No : 11
Assignment Name : Write a Python program to convert Date to String

Program:

```
from datetime import date

today = date.today()

# Converting the date to the string

Str = date.isoformat(today)
print("Date to String:", Str)
print(type(Str))
```

Output:

```
runfile('C:/Users/DELL/3D
Objects/rk_1/python/Assi_9_13/untitled2.py',
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assi_9_13')

Date to String: 2022-12-22

<class 'str'>
```

Roll No : 7824
Assignment No : 12
Assignment Name : Write a Python program to display the
Calendar of a given month.

Program:

```
import calendar  
  
yy = int(input("Enter a year:"))  
mm = int(input("Enter a Month:"))  
  
print(calendar.month(yy, mm))
```

Output:

```
runfile('C:/Users/DELL/3D  
Objects/rk_1/python/Assi_9_13/Assi_12.py',  
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assi_9_13')
```

Enter a year:2019

Enter a Month:12

December 2019

Mo Tu We Th Fr Sa Su

1

2 3 4 5 6 7 8

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30 31

Roll No : 7824
Assignment No : 13
Assignment Name : Write a Python program to display
calendar of the given year.

Program:

```
import calendar  
yy=int(input("Enter a year:"))  
print ("The calendar of year {} is :".format(yy))  
print (calendar.calendar(yy, 2, 1, 6))
```

Output:

```
runfile('C:/Users/DELL/3D  
Objects/rk_1/python/Assi_9_13/Assi_13.py',  
wdir='C:/Users/DELL/3D Objects/rk_1/python/Assi_9_13')
```

Enter Year:2022

2022

January							February							March						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
					1	2		1	2	3	4	5	6		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28							28	29	30	31			

April

Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

May

Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

July

Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

October

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

November

Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Roll No : 7824
Assignment No : 14
Assignment Name : Write a Python program to demonstrate
file Input and Output

Program:

```
rk= open("rk.txt","w")  
if rk:  
    print("File Created and Opened Sucessfully in write  
mode :")  
rk.write("7824 \n RUSHIKESH KORE  \n BCA-3")  
if rk.write:  
    print("Data Inserted With Write Mode..!")  
rk.close()  
print("")
```

```
rk = open("rk.txt","r")  
if rk:  
    print("File Opened In Read Mode :")  
print("Result after Write : \n",rk.read())  
rk.close()  
print("")
```

```
rk= open("rk.txt", "a+")  
if rk:  
    print("file opened In append mode :")
```



```
rk.write("\n NIMCET \n CET \n ITS \n DM \n DMDW \n JAVA \n  
Swyam \n Python")
```

```
if rk.write:
```

```
    print("Data Inserted With Append Mode...")
```

```
rk.close()
```

```
print("")
```

```
rk = open("rk.txt","r")
```

```
if rk:
```

```
    print("File Opened In Read Mode :")
```

```
print("Result after Append  :\n",rk.read())
```

```
rk.close()
```

```
print("")
```

```
rk = open("rk.txt" ,"w+")
```

```
if rk:
```

```
    print("File Is overwrite Sucessfully with Write+  
mode..!")
```

```
rk.write("Data OverWrited..!")
```

```
rk.close()
```

```
print("")
```

```
rk=open("rk.txt")
if rk:
    print("File Opened In Default Mode (r):")
print("Result after Overwrite :\n",rk.read())
rk.close()
```

Output:

```
runfile('C:/Users/DELL/untitled0.py', wdir='C:/Users/DELL')
```

File Created and Opened Sucessfully in write mode :

Data Inserted With Write Mode..!

File Opened In Read Mode :

Result after Write :

7824

RUSHIKESH KORE

BCA-3

file opened In append mode :

Data Inserted With Append Mode...

File Opened In Read Mode :

Result after Append :

7824

RUSHIKESH KORE

BCA-3

NIMCET

CET

ITS

DM

DMDW

JAVA

Swyam

Python

File Is overwrite Sucesssfully with Write+ mode..!

File Opened In Default Mode (r):

Result after Overwrite :

Data OverWrited..!

Roll No : 7824
Assignment No : 15
Assignment Name : Write a Python Program to add two numbers using GUI.

Program:

```
from tkinter import *

root = Tk()
root.geometry("500x500")

Label(root, text="Enter first number:").grid(row=0,
column=5)

Label(root, text="Enter second number:").grid(row=1,
column=5)

label3 = Label(root)

label3.grid(row=3, column=6)

no1 = IntVar()
no2 = IntVar()

entry1 = Entry(root, textvariable=no1).grid(row=0, column=6)
entry2 = Entry(root, textvariable=no2).grid(row=1, column=6)
```

```
def add():  
    Add = no1.get() + no2.get()  
    label3.config(text="Addition of number is:" + str(Add))  
  
b1 = Button(root, text=("Submit"), command=add).grid(row=2,  
column=6)  
  
root.mainloop()
```

Output:

```
runfile('C:/Users/RK/3D  
Objects/python/Assignment/Assi_15.py', wdir='C:/Users/RK/3D  
Objects/python/Assignment')
```

