Name: MEHTA PRALAYKUMAR MAHENDRABHAI

Sub: Internship of python(online)

Branch: IT

College name: GEC Modasa

Year : 3ʳᵈ year

Mo no: 8347038378

Guided by: Devanshi ma'm
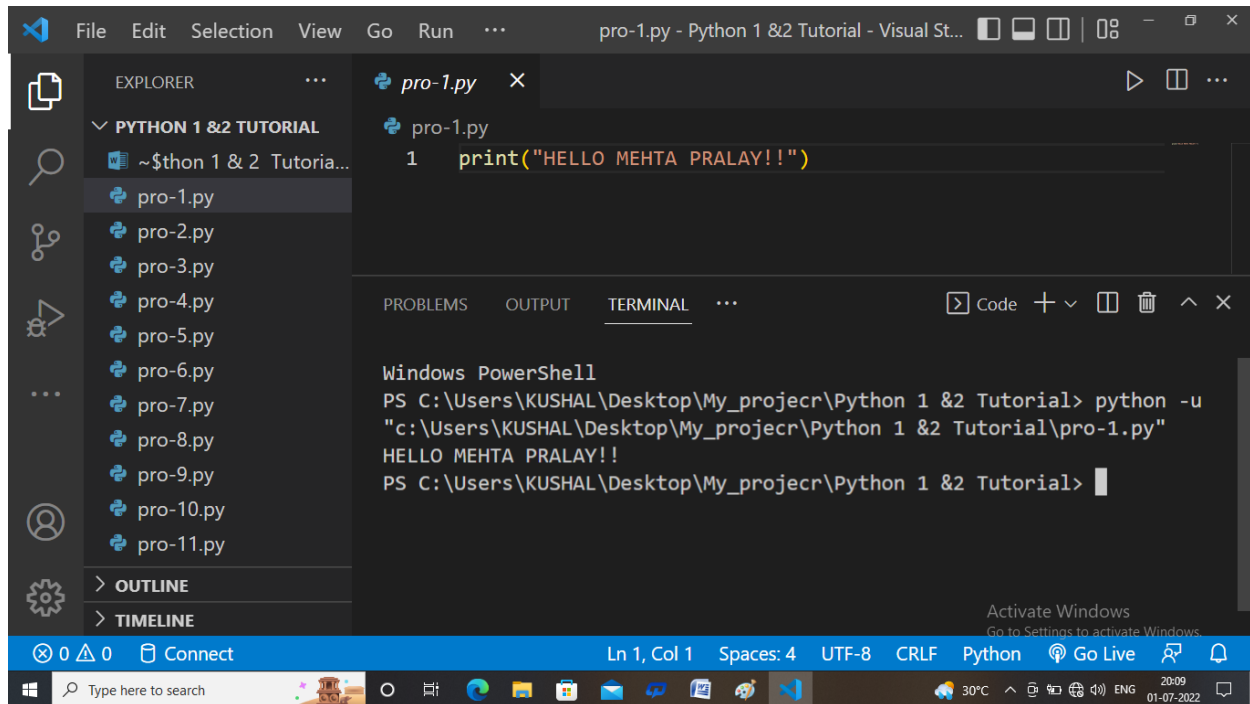
Company name: Akash Technolabs

Exercise : Python 1 & 2 Tutorial

Practice programs

Date : 26/06/2022

(PRACTICAL - 1):

(PRACTICAL - 2):

```python
#this is a comment
#comment written in hash function
print("HELLO MEHTA PRALAY!!")
'''
this is also comment
'''
"""
it also other type of multi line commnt
"""
```

Windows PowerShell
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-1.py"
HELLO MEHTA PRALAY!!

(PRACTICAL - 3):


```python
X = 'MEHTA'
Y = 'PRALAY'
AGE = 20

print("Surnme is : ",X)

print("Name is : ",Y)

print("Age is : ",AGE)
```

PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-3.py"
Surnme is : MEHTA
Name is : PRALAY
Age is : 20
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>

(PRACTICAL - 4):

(PRACTICAL - 5):

```python
name = "PRALAY"
print("name is : ",name)

# new value assign to the name variable
fullname = "PRALAYKUMAR MEHTA"
print("name is : ",fullname)
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u
"c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-4.py"
name is :  PRALAY
name is :  PRALAYKUMAR MEHTA
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```


(PRACTICAL - 6):

```python
Name,Surname,Age,Branch = 'Pralay','Mehta',20,'IT'

print("Name is : ",Name)
print("Surname is : ",Surname)
print("Age is : ",Age)
print("Branch is : ",Branch)
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u
"c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-5.py"
Name is :  Pralay
Surname is :  Mehta
Age is :  20
Branch is :  IT
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

```
1    x = y = z =50
2
3    print("Value of x is : ",x)
4    print("Value of y is : ",y)
5    print("Value of z is : ",z)
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u
"c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-6.py"
Value of x is :  50
Value of y is :  50
Value of z is :  50
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

(PRACTICAL - 7):


```
1    num1 = 50
2    print("num1 type is : ",type(num1))
3    print(num1,"is complex number? : ", isinstance(50, complex))
4
5    num2 = 25.70
6    print("num2 type is : ",type(num2))
7    print(num2,"is complex number? : ", isinstance(25.70, complex))
8
9    num3 = 1 + 2j
10   print(num3,"is complex number? : ", isinstance(1 + 2j, complex))
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-7.py"
num1 type is :  <class 'int'>
50 is complex number? :  False
num2 type is :  <class 'float'>
25.7 is complex number? :  False
(1+2j) is complex number? :  True
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

(PRACTICAL – 8(1)):

(PRACTICAL - 8(2):

```python
Name = 'MEHTA PRALAY'

# single characters printing
print(Name[0])
print(Name[1])
print(Name[2])
print(Name[3])
print(Name[4])
print(Name[5])
print(Name[6])
print(Name[7])
print(Name[8])
print(Name[9])
print(Name[10])
print(Name[11])

print(Name[0:5])
print(Name[7:11])
print(Name[2:8])
print(Name[2:])
print(Name * 4)
print( "HELLO " + Name)
```



```
ktop\My_projecr\Python 1 &2 Tutorial\pro-8.py"
M
E
H
T
A

P
R
A
L
A
Y
MEHTA
RALA
HTA PR
HTA PRALAY
MEHTA PRALAYMEHTA PRALAYMEHTA PRALAYMEHTA PRALAY
HELLO MEHTA PRALAY
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

(PRACTICAL - 9):

(PRACTICAL - 10):

(PRACTICAL - 11):

```python
# Create empty list
list = []

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

# Range function
for i in range(0,n):
    Element = input('Enter the elements : ')

    list.append(Element)

print(list)
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-11.py"
Enter the number of elements : 3
Enter the elements : ram shyam kishan
['ram shyam kishan']
Enter the elements :
```

```python
tuple1 = (12,78,97,'PIYUSH','SHYAM','ROMAN','CHIRAG','KRRISH','KUSHAL')
# we can denote tuple : () / 'aksha','ram',78
tuple2 = "RAM","JAMS","ROHAN",55,66,77

print('Tuple one is = ',tuple1)
print('Tuple two is = ',tuple2)
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-12.py"
Tuple one is =  (12, 78, 97, 'PIYUSH', 'SHYAM', 'ROMAN', 'CHIRAG', 'KRRISH', 'KUSHAL')
Tuple two is =  ('RAM', 'JAMS', 'ROHAN', 55, 66, 77)
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

```python
tuple = (12,78,97,'PIYUSH','SHYAM','ROMAN','CHIRAG','KRRISH','KUSHAL')

print('Tuple[3] value is : ',tuple[3])
print('Tuple[8] value is : ',tuple[8])
print('Tuple[0:3] value is : ',tuple[0:3])
print('Tuple[2:8] value is : ',tuple[2:8])
print('Tuple[5:] value is : ',tuple[5:])
```

Terminal output:
```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-13.py"
Tuple[3] value is :  PIYUSH
Tuple[8] value is :  KUSHAL
Tuple[0:3] value is :  (12, 78, 97)
Tuple[2:8] value is :  (97, 'PIYUSH', 'SHYAM', 'ROMAN', 'CHIRAG', 'KRRISH')
Tuple[5:] value is :  ('ROMAN', 'CHIRAG', 'KRRISH', 'KUSHAL')
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

(PRACTICAL - 14):


```python
tuple = (12,78,97,'PIYUSH','SHYAM')
# Error in the tuple
# We cannot change the value in tuple
tuple[3] = 'RAM'
```

Terminal output:
```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-14.py"
Traceback (most recent call last):
  File "c:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial\pro-14.py", line 4, in <mo
dule>
    tuple[3] = 'RAM'
TypeError: 'tuple' object does not support item assignment
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```
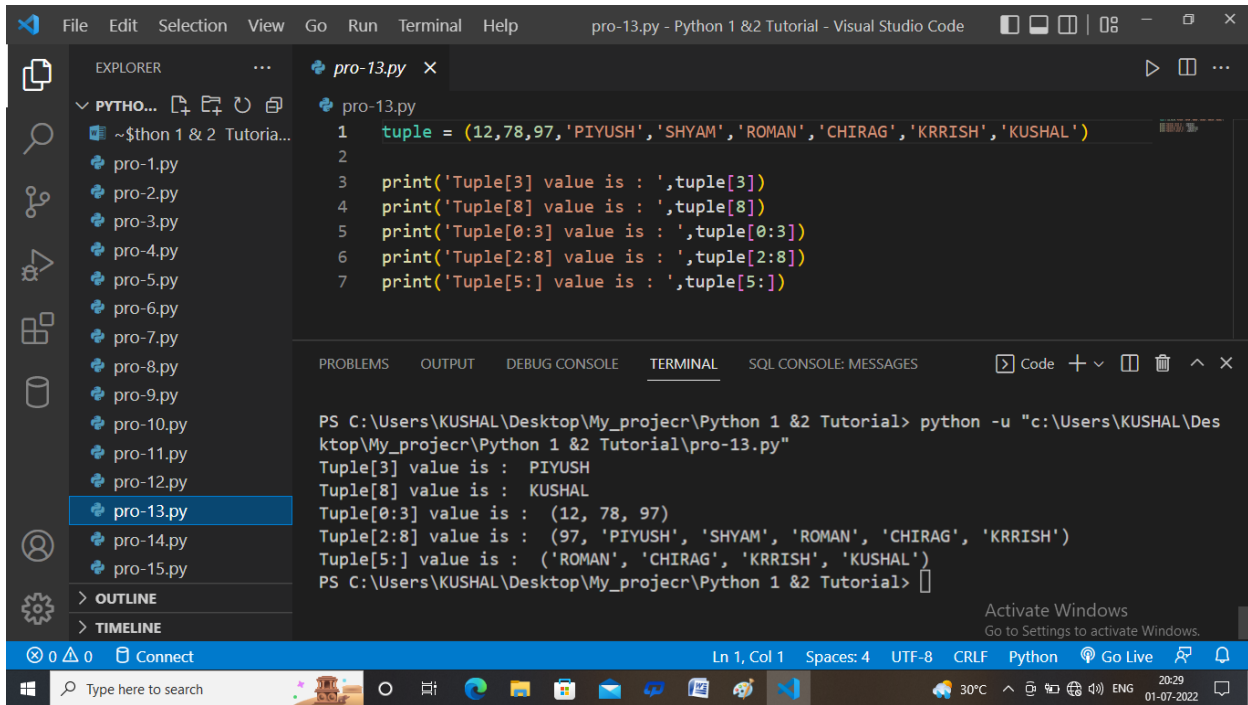
(PRACTICAL - 15(1)):

EXPLORER

PYTHON 1 &2 TUTORIAL
- ~$thon 1 & 2 Tutoria...
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- pro-12.py
- pro-13.py
- pro-14.py
- pro-15.py

pro-15.py ✕

pro-15.py

```python
1   list = []
2
3   n = int(input("Enter the number of elements : "))
4
5   # Range function
6   for i in range(0,n):
7       Element = input('Enter the elements : ')
8
9       list.append(Element)
10
11  tuple = tuple(list)
12  print(list)
13  print(tuple)
14
15
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE: MESSAGES

PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>

> OUTLINE
> TIMELINE

(PRACTICAL - 15(2)):

EXPLORER

PYTHON 1 &2 TUTORIAL
- ~$thon 1 & 2 Tutoria...
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- pro-12.py
- pro-13.py
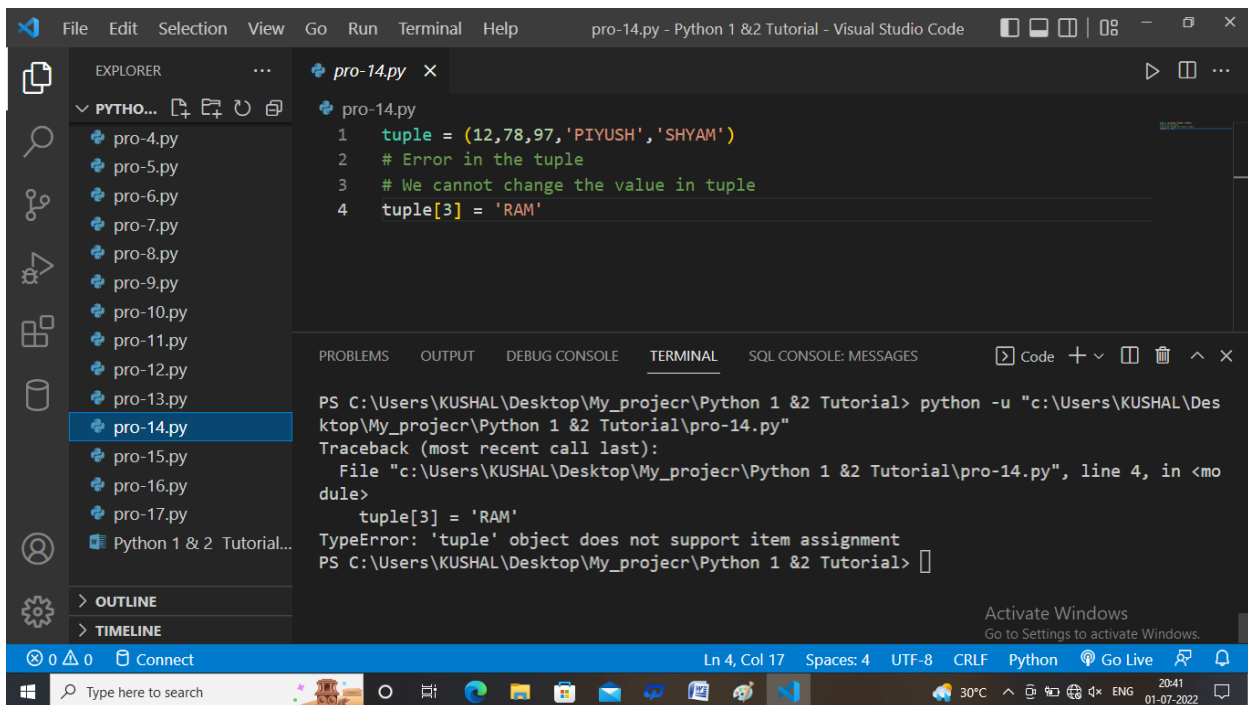- pro-14.py
- pro-15.py

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE: MESSAGES

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-15.py"
Enter the number of elements : 11
Enter the elements : Kushal
Enter the elements : Pratham
Enter the elements : Tushar
Enter the elements : Gauri
Enter the elements : Sarvagna
Enter the elements : Parag
Enter the elements : Saurabh
Enter the elements : Chirag
Enter the elements : Krrish
Enter the elements : Vishwa
Enter the elements : Raghav
List is :  ['Kushal', 'Pratham', 'Tushar', 'Gauri', 'Sarvagna', 'Parag', 'Saurabh', 'Chira
g', 'Krrish', 'Vishwa', 'Raghav']
Tuple is :  ('Kushal', 'Pratham', 'Tushar', 'Gauri', 'Sarvagna', 'Parag', 'Saurabh', 'Chir
ag', 'Krrish', 'Vishwa', 'Raghav')
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

> OUTLINE
> TIMELINE

(PRACTICAL - 16):

```python
# Dictionary data taype
# Dictionary datatype in value stored in curley brases : {}
dict = {1: 'RAM',2:'SHYAM',3:'KISHAN',4:'KUSHAL',5:'RAJ','total':157}
print(type(dict))

print("dict[1] value is : ",dict[1])
print("dict[4] value is : ",dict[4])
print("dict['total'] value is : ",dict['total'])
```

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial> python -u "c:\Users\KUSHAL\Des
ktop\My_projecr\Python 1 &2 Tutorial\pro-16.py"
<class 'dict'>
dict[1] value is :  RAM
dict[4] value is :  KUSHAL
dict['total'] value is :  157
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 1 &2 Tutorial>
```

(PRACTICAL - 17):


```python
dict = {}
n = int(input("Enter the value of element : "))

for i in range(0,n):
    a,b = input("Enter key value pair data : ").split()
    dict[a] = [b]
    print(dict)
```

```
ktop\My_projecr\Python 1 &2 Tutorial\pro-17.py"
Enter the value of element : 5
Enter key value pair data : 1 Vikrant
{'1': ['Vikrant']}
Enter key value pair data : 2 Jashesh
{'1': ['Vikrant'], '2': ['Jashesh']}
Enter key value pair data : 50  Pralay
{'1': ['Vikrant'], '2': ['Jashesh'], '50': ['Pralay']}
Enter key value pair data : 157 Piyush
{'1': ['Vikrant'], '2': ['Jashesh'], '50': ['Pralay'], '157': ['Piyush']}
Enter key value pair data : 143 Shyam
{'1': ['Vikrant'], '2': ['Jashesh'], '50': ['Pralay'], '157': ['Piyush'], '143': ['Shyam']}
```

thank you

THE END