PS D:\Python Course> python

Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> from fractions import Fraction

>>> Fraction(20,10)

Fraction(2, 1)

>>> Fraction(49,3)

Fraction(49, 3)

>>> name="sami"

>>> name

'sami'

>>> dir(name)

['\_\_add\_\_', '\_\_class\_\_', '\_\_contains\_\_', '\_\_delattr\_\_', '\_\_dir\_\_', '\_\_doc\_\_', '\_\_eq\_\_', '\_\_format\_\_', '\_\_ge\_\_', '\_\_getattribute\_\_', '\_\_getitem\_\_', '\_\_getnewargs\_\_', '\_\_getstate\_\_', '\_\_gt\_\_', '\_\_hash\_\_', '\_\_init\_\_', '\_\_init\_subclass\_\_', '\_\_iter\_\_', '\_\_le\_\_', '\_\_len\_\_', '\_\_lt\_\_', '\_\_mod\_\_', '\_\_mul\_\_', '\_\_ne\_\_', '\_\_new\_\_', '\_\_reduce\_\_', '\_\_reduce\_ex\_\_', '\_\_repr\_\_', '\_\_rmod\_\_', '\_\_rmul\_\_', '\_\_setattr\_\_', '\_\_sizeof\_\_', '\_\_str\_\_', '\_\_subclasshook\_\_', 'capitalize', 'casefold', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find', 'format', 'format\_map', 'index', 'isalnum', 'isalpha', 'isascii', 'isdecimal', 'isdigit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace', 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans', 'partition', 'removeprefix', 'removesuffix', 'replace', 'rfind', 'rindex',

'rjust', 'rpartition', 'rsplit', 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'translate', 'upper', 'zfill']>>> len(name)

4

>>> name="sami ur rehman"

>>> len(name)

14

>>> name[0]

's'

>>> name[1:4]

'ami'

>>> name[:]

'sami ur rehman'

>>> list(range(5))

[0, 1, 2, 3, 4]

>>> tup=(1,"sami")

>>> tup

(1, 'sami')

>>> tup[1]

'sami'

>>> lis=[1,3,2]

>>> lis

[1, 3, 2]

>>> lis[1]=55

>>> lis

[1, 55, 2]

>>> tup

(1, 'sami')

>>> tup[0]=20

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

tup[0]=20

~~~^^^

TypeError: 'tuple' object does not support item assignment

>>> tuple("sami")

('s', 'a', 'm', 'i')

>>> tuple("sami ur rehman")

('s', 'a', 'm', 'i', ' ', 'u', 'r', ' ', 'r', 'e', 'h', 'm', 'a', 'n')

>>> tuple(123456)

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

tuple(123456)

~~~~~^^^^^^^^

TypeError: 'int' object is not iterable

>>> tuple(123456)

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

tuple(123456)

~~~~~^^^^^^^^

TypeError: 'int' object is not iterable

>>> tuple('123456')

('1', '2', '3', '4', '5', '6')

>>> tuple([1,2])

(1, 2)

>>> tuple()

()

>>> tuple({'a':'sami'})

('a',)

>>> d={"name":"sami",

... "class":"bsi"}

>>> d

{'name': 'sami', 'class': 'bsi'}

>>> d["class"]

'bsi'

>>> set("abc")

{'a', 'c', 'b'}

>>> set("aabbcc")

{'a', 'c', 'b'}

>>> open("tem.txt")

<\_io.TextIOWrapper name='tem.txt' mode='r' encoding='cp1252'>

>>> f=open("tem.txt")

>>> f

<\_io.TextIOWrapper name='tem.txt' mode='r' encoding='cp1252'>

>>>