practice

```
In [3]:   l=[]
```

```
In [17]:  l.append(23)
          l.append('bikash')
          l.append(34+4j)
          l.append(23.5)
```

```
In [19]:  l1 = []
```

```
In [25]:  l=l1.copy
```

```
In [27]:  l2 = l1.copy
```

```
In [31]:  l1.clear
```

Out[31]: <function list.clear()>

```
In [33]:  l = l1.copy
```

```
In [35]:  l1
```

Out[35]: []

```
In [37]:  l
```

Out[37]: <function list.copy()>

```
In [39]:  l
```

Out[39]: <function list.copy()>

```
In [41]:  l1
```

Out[41]: []

```
In [53]:  l1.append(23)
          l1.append(34+4j)
          l1.append('bikash')
          l1.append(23.4)
```

```
In [57]:  l1
```

```
Out[57]:  [23,
           (34+4j),
           23,
           (34+4j),
           23,
           (34+4j),
           'bikash',
           23.4,
           23,
           (34+4j),
           'bikash',
           23.4]
```

```
In [51]:  l1
```

```
Out[51]:  [23, (34+4j), 23, (34+4j), 23, (34+4j), 'bikash', 23.4]
```

```
In [59]:  l=l1.copy
```

```
In [61]:  l
```

```
Out[61]:  <function list.copy()>
```

```
In [63]:  l1 = l.copy
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[63], line 1
----> 1 l1 = l.copy

AttributeError: 'builtin_function_or_method' object has no attribute 'copy'
```

```
In [65]:  l=[]
```

```
In [67]:  l1 = l.copy
```

```
In [69]:  l
```

```
Out[69]:  []
```

```
In [71]:  l1.append(10)
          l1.append(1.2)
          l1.append('nit')
          l1.append(True)
          l1.append(1+2j)
          l1.append(10)
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[71], line 1
----> 1 l1.append(10)
      2 l1.append(1.2)
      3 l1.append('nit')

AttributeError: 'builtin_function_or_method' object has no attribute 'append'
```

In [76]:
```python
l2 = []
l2.append(10)
l2.append(1.2)
l2.append('nit')
l2.append(True)
l2.append(1+2j)
l2.append(10)
```

In [78]:
```python
l2
```

Out[78]: `[10, 1.2, 'nit', True, (1+2j), 10]`

In [84]:
```python
l1=l2.copy()
```

In [86]:
```python
l1
```

Out[86]: `[10, 1.2, 'nit', True, (1+2j), 10]`

In [96]:
```python
l1.extend('bikash')
```

In [98]:
```python
l1
```

Out[98]: `[10, 1.2, 'nit', True, (1+2j), 10, 'b', 'i', 'k', 'a', 's', 'h']`

In [102…
```python
l1.count(0)
```

Out[102… `0`

In [104…
```python
l1.count(23)
```

Out[104… `0`

In [106…
```python
l1.count(10)
```

Out[106… `2`

In [108…
```python
l1.index('nit')
```

Out[108… `2`

In [116…
```python
l1.sort()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[116], line 1
----> 1 l1.sort()

TypeError: '<' not supported between instances of 'str' and 'float'
```

In [118… `l1[::-1]`

Out[118… `['h', 's', 'a', 'k', 'i', 'b', 10, (1+2j), True, 'nit', 1.2, 10]`

In [121… `l1`

Out[121… `[10, 1.2, 'nit', True, (1+2j), 10, 'b', 'i', 'k', 'a', 's', 'h']`

In [132… `l1[2]=48+9j`
`l1[3]='study'`

In [134… `l1`

Out[134… `[10, 1.2, (48+9j), 'study', (1+2j), 10, 'b', 'i', 'k', 'a', 's', 'h']`

In [136… `list = l + l1`

In [138… `list`

Out[138… `[10, 1.2, (48+9j), 'study', (1+2j), 10, 'b', 'i', 'k', 'a', 's', 'h']`

In [140… `l`

Out[140… `[]`

In [142… `l.append(34.4920283484)`

In [144… `list = l + l1`

In [146… `list`

Out[146…
```
[34.4920283484,
 10,
 1.2,
 (48+9j),
 'study',
 (1+2j),
 10,
 'b',
 'i',
 'k',
 'a',
 's',
 'h']
```

In [148… `list.extend(l)`

```
In [150…   list
```

```
Out[150…   [34.4920283484,
            10,
            1.2,
            (48+9j),
            'study',
            (1+2j),
            10,
            'b',
            'i',
            'k',
            'a',
            's',
            'h',
            34.4920283484]
```

```
In [152…   '50' in list
```

```
Out[152…   False
```

```
In [154…   10 in list
```

```
Out[154…   True
```

```
In [162…   if 'night'in list:
               print('night is present in list')
           else:
               print('night is not present in list')
```

```
night is not present in list
```

```
In [164…   if 10 in list:
               print('10 is present in list')
           else:
               print('10 is not here in list')
```

```
10 is present in list
```

```
In [166…   l3 = []
```

```
In [168…   l3 = [23,45,76,23,-1,98,26]
```

```
In [170…   l3
```

```
Out[170…   [23, 45, 76, 23, -1, 98, 26]
```

```
In [172…   l3.sort()
```

```
In [174…   l3
```

```
Out[174…   [-1, 23, 23, 26, 45, 76, 98]
```

```
In [181…   l3.sort(reverse=True)
```

```
In [183…  l3
```

```
Out[183…  [98, 76, 45, 26, 23, 23, -1]
```

```
In [191…  for i in list:
              print(i)
```

```
34.4920283484
10
1.2
(48+9j)
study
(1+2j)
10
b
i
k
a
s
h
34.4920283484
```

```
In [199…  for i in enumerate(list):
              print(i)
```

```
(0, 34.4920283484)
(1, 10)
(2, 1.2)
(3, (48+9j))
(4, 'study')
(5, (1+2j))
(6, 10)
(7, 'b')
(8, 'i')
(9, 'k')
(10, 'a')
(11, 's')
(12, 'h')
(13, 34.4920283484)
```

Question

1.What is a Variable in python? ans:- a location in memory to store data

2.Question 2 How do you declare a variable in Python? ans:- x=4

Question 3 What is the correct way to comment a single line in Python? ans:- # This is a comment

Question 4 Which of the following is a valid variable name in Python? ans:- B. my_variable

Question 5 How do you swap the values of two variables in Python without using a third variable? B. x, y = y, x

Question 6 Which of the following data types is immutable in Python?

Question 7 What is the output of the following code?

x = 10 y = 5 z = x + y print(z)

B. 15 What does the type() function return in Python? The type of the variable

- Question 9 What is the scope of a global variable in Python?

B. Limited to the module it is defined in

Question 10 How do you convert a string to an integer in Python A. int(string)

Question 11 What is the correct way to check if a variable is of a specific type in Python?

x = 5 y = 2print(x // y)

ans :- 2

How do you concatenate two strings in Python? B. str1 + str2

What is the output of the following code? x = "Hello" print(x[1:4])

What is the purpose of the max() function in Python? A. To find the maximum value in a list

How do you find the length of a list in Python? A. len(list)

How do you check if a key is present in a dictionary? A. key in dictionary

What is the purpose of the enumerate() function in Python? A. To get the index and value of each item in an iterable

Question 19

Question 20

How do you convert a floating-point number to an integer in Python? A. int(number)

How do you create a multiline string in Python? """This is a multiline string"""

How do you create a dictionary using a comprehension in Python? A. {key: value for key, value in iterable}

Which of the following is not a Python Data Type?

char

Which data type can be used to store the percentage obtained by a student?

. Float

dic = {1: 'A', 2: 'E', 3: 'I'} dic[4] = 'O' print(dic) {1: 'A', 2: 'E', 3: 'I', 4: 'O'}

What is the output of the following code? list1 = ['a', 'b', 'g', 1, 5] print(list1.pop)

['a', 'b', 'g', 1]

Which of the following operators is used to add elements at the end of a list?

append()

var = 2 print(2 == 2.0)

True

num = 4 + 0j print(type(num))

complex

print(int(3.9)) 3

a = 'Python' + ".py" print(a) Python.py

Which of the following gives the output as "ello" from name = "Hello, World!"?

print(name[1:4])

What is the output of the following code? x = 50 def fun1(): x = 25 print(x)

fun1() print(x)

25 50

x = 75 def myfunc(): x = x + 1 print(x) myfunc() print(x) A. Error

```python
x = 5
y = 2
print(x // y)
```

2

```python
x = "Hello"
print(x[1:4])
```

ell

```python
a = 20
b= 30
max(a,b)
```

30

```python
x = [1, 2, 3, 4]
y = filter(lambda a: a % 2 == 0, x)
```

In [294...   `y`

Out[294...   `<filter at 0x1f1aa3146a0>`

In [274...   `l4=[2441,2,3,4]`

In [276...   `print(max(l4))`

            `2441`

In [296...   `l5 = ['baidjasjd','nik','dd']`

In [314...   ```
             l6=['a','b','c']
             l6.pop()
             ```

Out[314...   `'c'`

In [316...   `l6`

Out[316...   `['a', 'b']`

In [322...   ```
             set1 = {1, 5, 6, 6,5 , 4, 3}
             print(set1)
             ```

            `{1, 3, 4, 5, 6}`

In [327...

```
  Cell In[327], line 2
    str y = "20"
          ^
SyntaxError: invalid syntax
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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