

# PYTHON ASSIGNMENT MAJOR

1. Find the datatype of these two declaration : `x=5` `y="John"`

```
In [4]: x = 5
        y = "John"
        print(type(x))
        print(type(y))
```

```
<class 'int'>
<class 'str'>
```

1. Check whether the following syntax is valid or invalid for naming a variable.

Example:

`abc=100` #valid syntax

`i.3a=10` #invalid syntax

`ii.@abc=10` #invalid syntax

`iii.a100=100` #valid syntax

`iv. a984_=100` # valid syntax

`v.a9967$=100` #invalid syntax

`vi.xyz-2=100` #invalid syntax

3. Check if element exists in list in Python :

```
list = test_list = [1, 6, 3, 5, 3, 4]
```

1. Check if 3 exists or not.

```
thislist = [1,6,3,5,3,4]
if 3 in thislist:
    print("Yes, 3 is in the my list")
```

Yes, 3 is in the my list

2. Check if 9 exists or not

```
In [48]: thislist =[1,6,3,5,3,4]
         if 9 in thislist:
             print("yes, 9 is in the my list")
         else:
             print("no, 9 is not in the my list")
```

no, 9 is not in the my list

---

4. Take the user input to print the current date.

```
import datetime

x = datetime.datetime.now()

print(x)
```

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5. what is the output of the following code :

a. print 9//2

```
: x = 9
y = 2

print(x // y)

#FLOOR DIVISION
# x =9
#y = 2
#print(x // y)
```

4

b. print 9%2

```
x = 9
y = 2

print(x % y)
#MODULUS
#x = 9
#y = 2
#print(x % y)
```

6.Print First 10 natural numbers using a while loop

```
i = 1
while i <= 10:
    print(i)
    i += 1
```

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

7. Write a program to accept a number from a user and calculate the sum of all numbers from

1 to a given number.

For example , if the user entered 10 the out put should be 55  
(1+2+3+4+5+6+7+8+9+10)

```

lst = []
no_of_ele=int(input("length of the list to be :"))
for i in range(no_of_ele):
    ele = int(input())
    lst.append(ele)
print(lst)
sum = 0
for i in range(len(lst)):
    sum+=lst[i]
print("Sum of the elements of the given list is:",sum)

```

length of the list to be :10

1

2

3

4

5

6

7

8

9

10

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Sum of the elements of the given list is: 55

8. Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "Fizz Buzz". Example: fizz buzz 1 2 fizz 4 buzz

```
gvn_numbr = 50
```

```
for itr in range(1, gvn_numbr+1):
```

```
    if itr % 3 == 0 and itr % 5 == 0:
```

```
        print(itr, " - FizzBuzz")
```

```
    elif itr % 3 == 0:
```

```
        print(itr, " - Fizz")
```

```
    elif itr % 5 == 0:
```

```
    print(itr, " - Buzz")
```

```
else:
```

```
print(itr)
```

```
1
2
3 - Fizz
4
5 - Buzz
6 - Fizz
7
8
9 - Fizz
10 - Buzz
11
12 - Fizz
13
14
15 - FizzBuzz
16
17
18 - Fizz
19
20 - Buzz
21 - Fizz
22
23
24 - Fizz
25 - Buzz
26
27 - Fizz
28
29
30 - FizzBuzz
31
32
33 - Fizz
34
35 - Buzz
36 - Fizz
37
38
39 - Fizz
40 - Buzz
41
```

```
42 - Fizz
43
44
45 - FizzBuzz
46
47
48 - Fizz
49
50 - Buzz
```

In [ ]: