Please consider my assignment i am resubmitting it because earlier sent it in wrong format

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

In [2]:
```
x =5
y ="John"
print(type(x))
print(type(y))
```

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

2.Check whether the following syntax is valid or invalid for naming a variable.: Example: abc=100 #valid syntax i.3a=10 ii.@abc=10 iii.a100=100 iv.*a984*=100 v.a9967$=100 vi.xyz-2=100

In [1]:
```
# i.     3a=10        invalid syntax
print("3a=10        invalid syntax")
```

```
3a=10        invalid syntax
```

In [2]:
```
# ii.    @abc=10      invalid syntax
print("@abc=10      invalid syntax")
```

```
@abc=10      invalid syntax
```

In [3]:
```
# iii.   a100=100     valid syntax
print("a100=100     valid syntax")
```

```
a100=100     valid syntax
```

In [4]:
```
# iv.    _a984_=100   valid syntax
print("_a984_=100   valid syntax")
```

```
_a984_=100   valid syntax
```

In [5]:
```
# v.     a9967$=100   invalid syntax
print("a9967$=100   invalid syntax")
```

```
a9967$=100   invalid syntax
```

In [6]:
```
# vi.    xyz-2=100    invalid syntax
print("xyz-2=100    invalid syntax")
```

```
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 exist or not. 2.Check if 9 exists or not.

In [1]:
```
test_list = [1, 6, 3, 5, 3, 4]

result_3 = test_list.count(3)
result_9 = test_list.count(9)

if result_3 > 0:
    print("3 exists")
else:
    print("3 doesn't exists")

if result_9 > 0:
    print("9 exists")
else:
    print("9 doesn't exists")
```

```
3 exists
9 doesn't exists
```

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

In [3]:
```
from datetime import date

year = int(input("Provide current year\t"))
month = int(input("Provide current month\t"))
day = int(input("Provide current day\t"))
current_date = date(year, month, day)
print(current_date)
```

```
Provide current year    2022
Provide current month   12
Provide current day     5
2022-12-05
```

5.what is the output of the following code :a.print 9//2b.print 9%2

In [4]:
```
print(9 // 2)
print(9 % 2)
```

```
4
1
```

6.Print First 10 natural numbers using a while loop

In [5]:
```
for i in range(10):
    print(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 output should be 55(1+2+3+4+5+6+7+8+9+10)

In [2]:
```
n = int(input("Enter the numbers required number\t"))
i = 0
for x in range(1, n + 1):
    i = i + x
print(i)
```

```
Enter the numbers required number       10
55
```

8.Write a Python program which iterates the integers from 1to50. 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 "FizzBuzz" Example :fizzbuzz 1 2 fizz 4 buzz

In [7]:
```
for i in range(50):
    if (i + 1) % 5 == 0 and (i + 1) % 3 == 0:
        print("FizzBuzz")
    elif (i + 1) % 3 == 0:
        print("Fizz")
    elif (i + 1) % 5 == 0:
        print("Buzz")
    else:
        print(i + 1)
```

```
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
Fizz
22
23
Fizz
Buzz
26
Fizz
28
29
FizzBuzz
31
32
Fizz
34
Buzz
Fizz
37
38
Fizz
Buzz
41
Fizz
43
44
FizzBuzz
46
47
Fizz
49
Buzz
```

In [ ]:
```
```