In [113…
```
#Q1. Find the datatype of these two declaration :
x = 5
y = "john"

print(x)
print(y)
```

```
5
john
```

In [115…
```
 #Q2. Check whether the following syntax is valid or invalid for naminga variable.




abc = 100;
```

In [14]:
```
3a = 10;
```

```
  Cell In[14], line 1
    3a = 10;
    ^
SyntaxError: invalid decimal literal
```

In [15]:
```
@abc = 10;
```

```
  Cell In[15], line 1
    @abc = 10;
     ^
SyntaxError: invalid syntax. Maybe you meant '==' or ':=' instead of '='?
```

In [16]:
```
a100 = 100;
```

In [18]:
```
_a984_ = 100;
```

In [20]:
```
a9967$ = 100;
```

```
  Cell In[20], line 1
    a9967$ = 100;
           ^
SyntaxError: invalid syntax
```

In [24]:
```
xyz-2 = 100;
```

```
  Cell In[24], line 1
    xyz-2 = 100;
    ^
SyntaxError: cannot assign to expression here. Maybe you meant '==' instead of '='?
```

In [108…
```
#Q3Check if element exists in list in Python :
#Check if 3 exist or not.
list= test_list = [1,6,3,5,3,4]
print(test_list),
for i in list:
    print(list)
```

```
    print(list.count(3))

    #. Check if 9 exists or not.
    print(test_list.count(9))
```

```
[1, 6, 3, 5, 3, 4]
[1, 6, 3, 5, 3, 4]
2
0
[1, 6, 3, 5, 3, 4]
2
0
[1, 6, 3, 5, 3, 4]
2
0
[1, 6, 3, 5, 3, 4]
2
0
[1, 6, 3, 5, 3, 4]
2
0
[1, 6, 3, 5, 3, 4]
2
0
```

In [110…

```
#Q4.Take the user input to print the current date.

import datetime
now = datetime.datetime.now()
print(now.strftime("%Y-%m-%d %H:%M:%S"))
date = now.strftime("%Y-%m-%d")
```

```
2023-07-18 16:37:07
```

In [111…

```
#Q5.what is the output of the following code :

#a. print 9//2

x, y = 9 , 2
print(x // y)

#b. print 9%2

print(x % y)
```

```
4
1
```

In [112…

```
#Q6.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
```

In [12]:
```python
#7. Write a program to accept a number from a user and calculate


x=1,2,3,4,5,6,7,8,9,10
print(sum(x))

n = int(input("Enter a number:"))
s = 0
for i in range(n+1):
    s+=i
    print("sum of all number from 1 to given number:",s)
```

```
55
Enter a number:10
sum of all number from 1 to given number: 0
sum of all number from 1 to given number: 1
sum of all number from 1 to given number: 3
sum of all number from 1 to given number: 6
sum of all number from 1 to given number: 10
sum of all number from 1 to given number: 15
sum of all number from 1 to given number: 21
sum of all number from 1 to given number: 28
sum of all number from 1 to given number: 36
sum of all number from 1 to given number: 45
sum of all number from 1 to given number: 55
```

In [13]:
```python
#Q8 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 "FizzBuzz.


for i in range(1,51):
    if(i%3==0 and i%5==0):
        print("FizzBuzz")

    elif(i%3 == 0):
        print("Fizz")


    elif(i%5 ==0):
        print("Buzz")

    else:
        print(i)
```

```
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 [ ]: