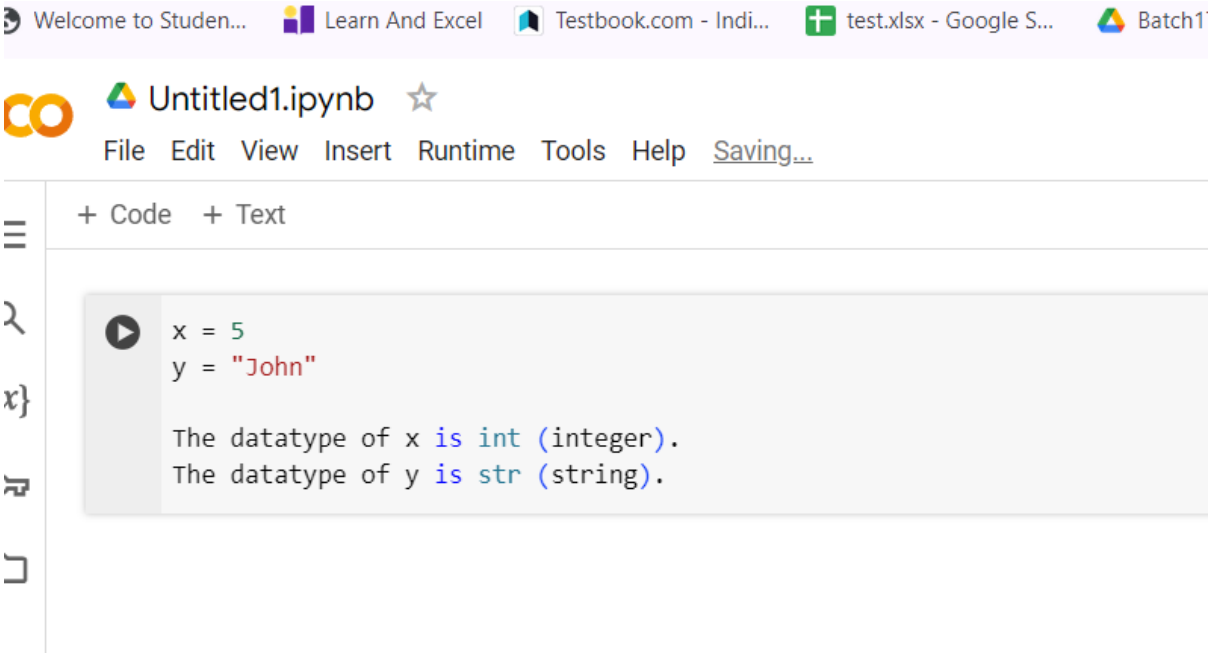
Q1) Find the datatype of these two declarations.

x = 5

y = "John"



Q2) Check whether the following syntax is **valid** or **invalid** for naming a variable. ?

Example: abc=100 #valid syntax

1) 3a=10

2) @abc=10

3) a100=100

4) _a984_=100

5) a9967$=100

6) xyz-2=100

3a = 10 → **Invalid** (Variable names can't start with a digit).

@abc = 10 → **Invalid** (Variable names can't start wih special characters like @).

a100 = 100 → **Valid** (It starts with a letter, and contains letters and numbers).

a984_ = 100 → **Valid** (Variable names can start with an underscore _).

a9967$ = 100 → **Invalid** (Variable names can't contain special characters like $).

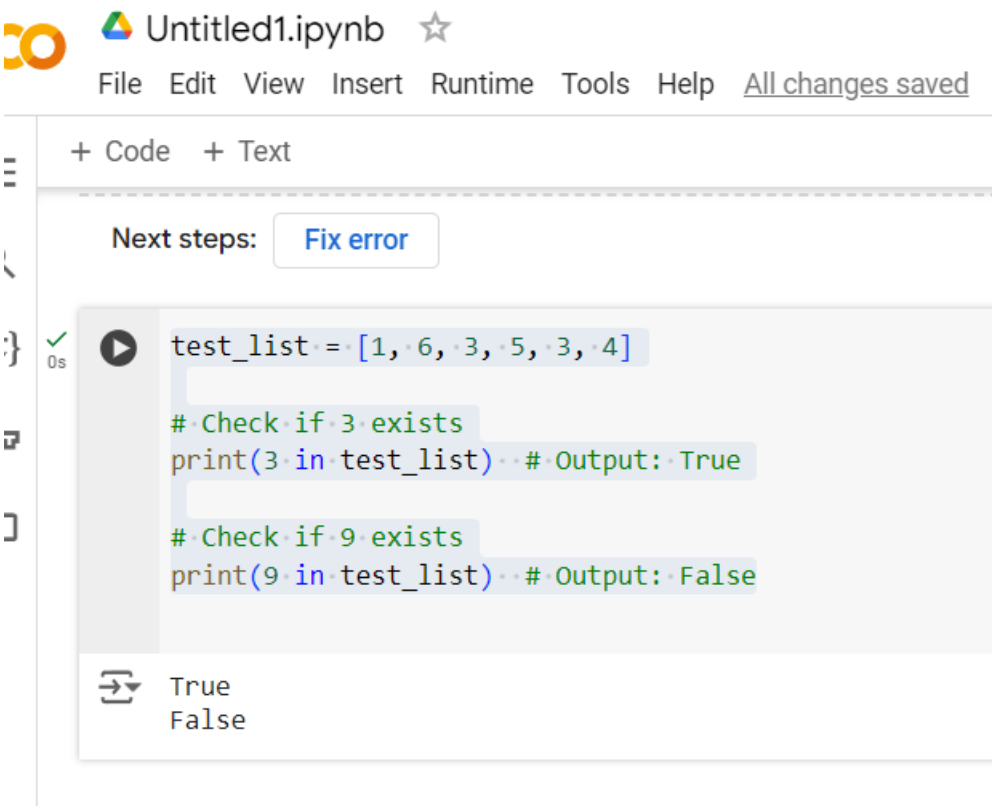
xyz-2 = 100 → **Invalid** (Variable names can't contain hyphens -).

Q3) Check if an element exists in the list in Python.

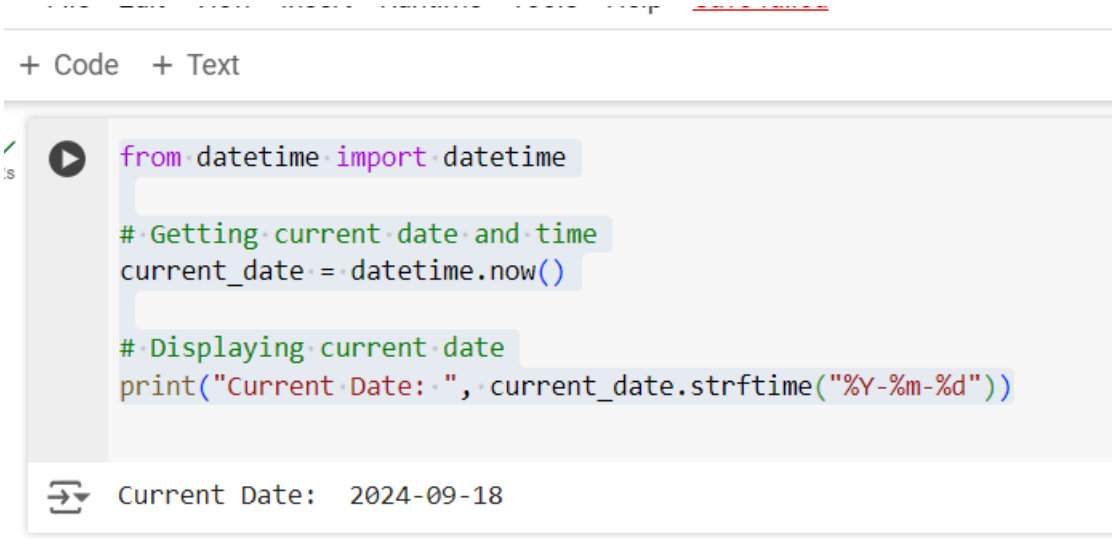
list = test_list = [1, 6, 3, 5, 3, 4]

1) Check if **3** exist or not.

2) Check if **9** exists or not.



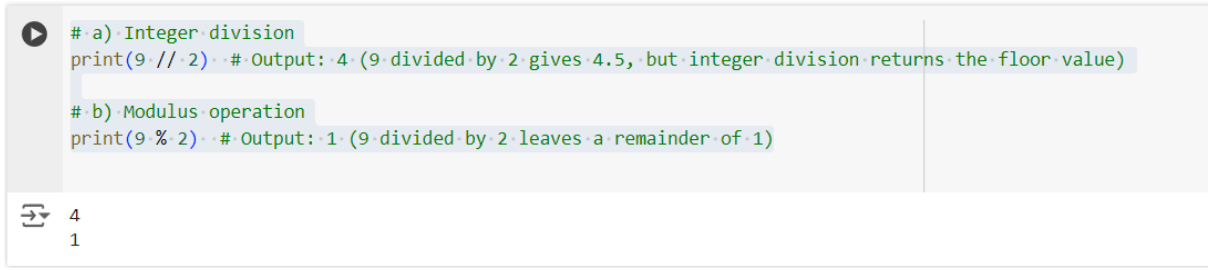
Q4) Take the user **input** to print the current date?



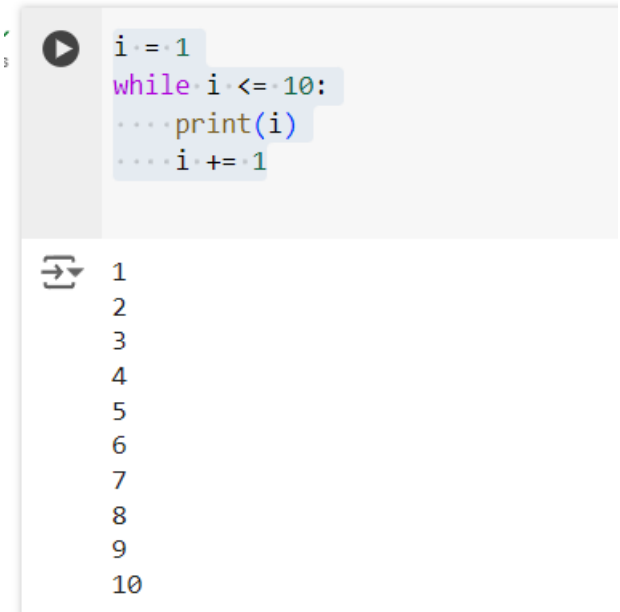
Q5) What is the **output** of the following code?

a) print 9//2

b) print 9%2



Q6) Print the **First 10 Natural Numbers** using a while loop.



Q7) Write a program to accept a **number from a user** and calculate the **sum of all numbers from 1 to a given number.**

Example= if the user entered **10** the output should be **55 (1+2+3+4+5+6+7+8+9+10)**

```
# Taking user input
num = int(input("Enter a number: "))

# Calculating sum
total_sum = sum(range(1, num + 1))

# Displaying result
print("Sum of numbers from 1 to", num, "is:", total_sum)
```

```
Enter a number: 10
Sum of numbers from 1 to 10 is: 55
```

Q8) Write a Python program that iterates the integers from **1** to **50**. For multiples of **three** print "**Fizz**" instead of the number and for multiples of **five** print "**Buzz**". For numbers that are multiples of both **three** and **five** print "**FizzBuzz**"?

Example:

FizzBuzz

1

2

Fizz

4

Buzz

Rohan Dhandhukiya rddhandhukiya@gmail.com Business Analyst

Python Assignment

+ Code + Text

0s

```
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
```

Rohan Dhandhukiya rddhandhukiya@gmail.com Business Analyst

Python Assignment