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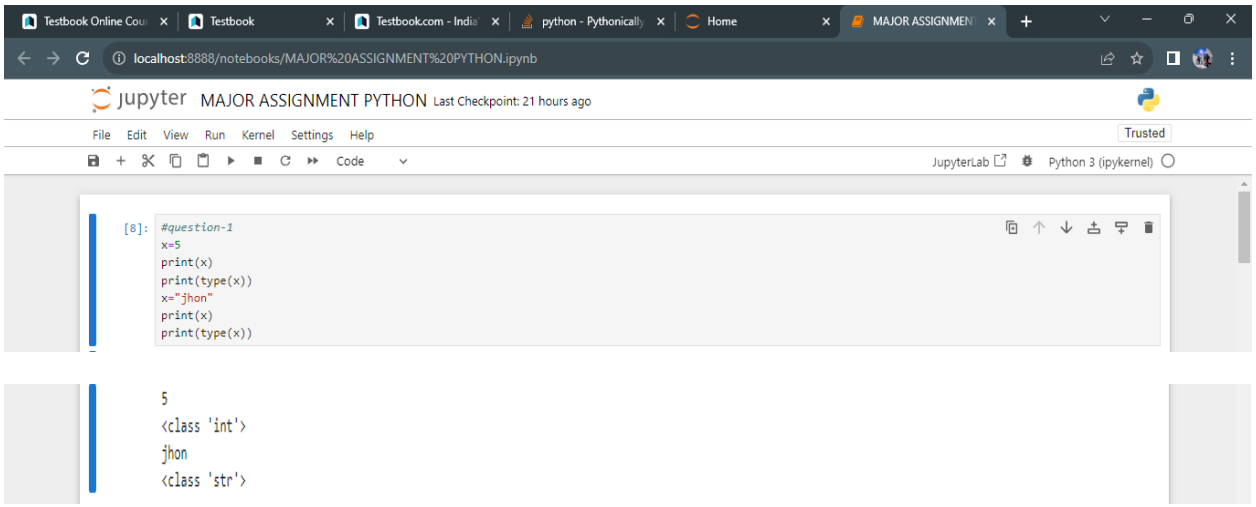
Email: vivekvermab97@gmail.com
Course: Data science & python program(chat gpt included)
Assignment: PYTHON (Major Assignment)

Question 1: Find the data type of these two declarations.

x=5

y="John"

Answer:



Question 2: Check whether the following syntax is valid or invalid for naming a variable.?

1) 3a = 10

2) @abc = 10

3) a100 = 100

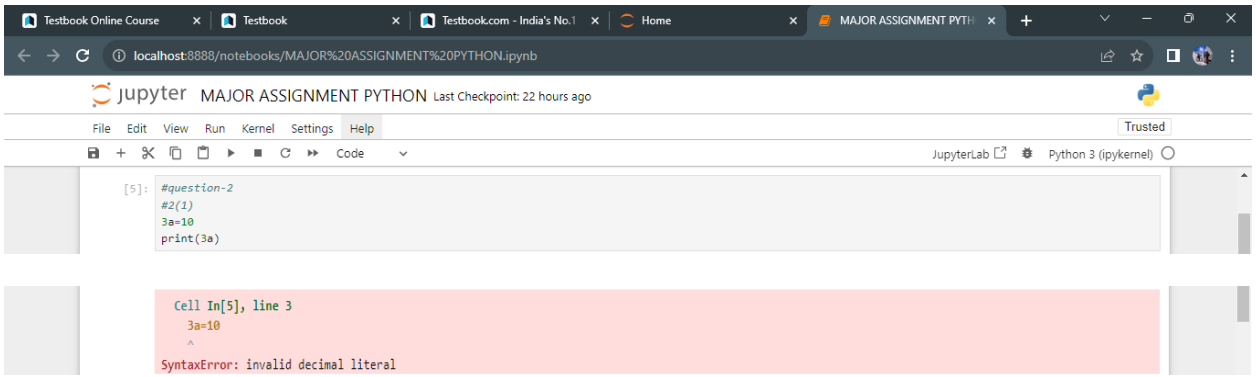
4) _a984_ = 100

5) a9967$ = 100

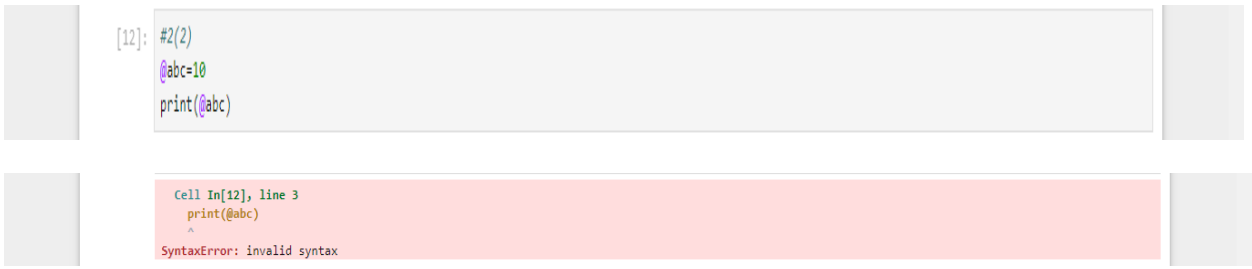
6) xyz-2 = 100

Answer:

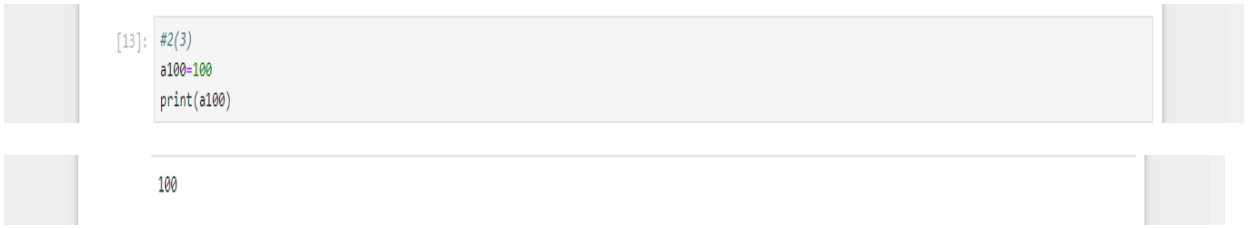
2(1) 3a = 10



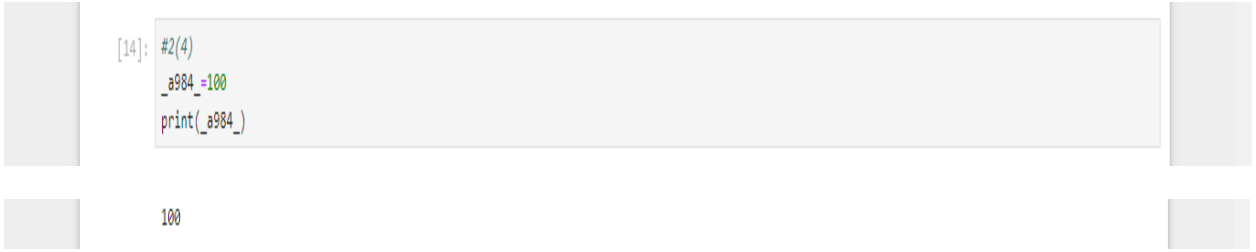
2(2) @abc = 10



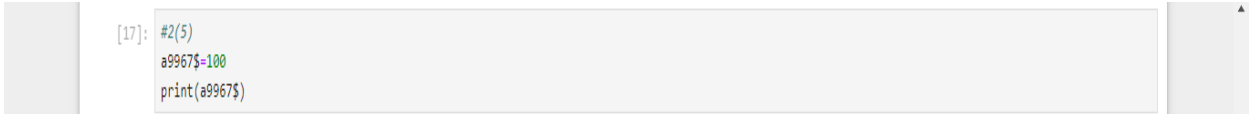
2(3) a100 = 100



2(4) _a984_ = 100



2(5) a9967$ = 100



```
  Cell In[17], line 1
    a9967$=100
          ^
SyntaxError: invalid syntax
```

2(6) xyz-2 = 100

```
[18]: #2(6)
      xyz-2=100
      print(xyz-2)
```

```
  Cell In[18], line 1
    xyz-2=100
    ^
SyntaxError: cannot assign to expression here. Maybe you meant '==' instead of '='?
```

Question 3: Check if an element exists in the list in Python.

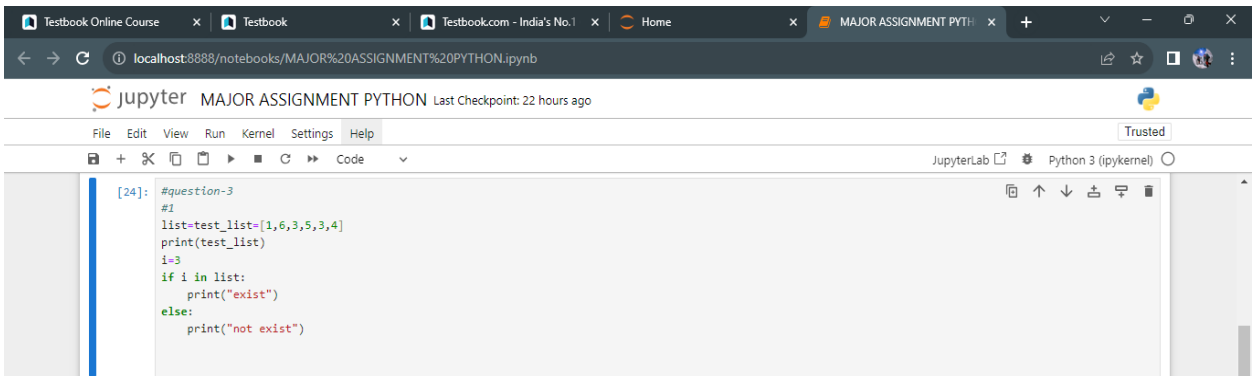
List = test_list = [1,6,3,5,3,4]

1) Check if 3 exist or not.

2) Check if 9 exists or not.

Answer:

3(1) Check if 3 exist or not.



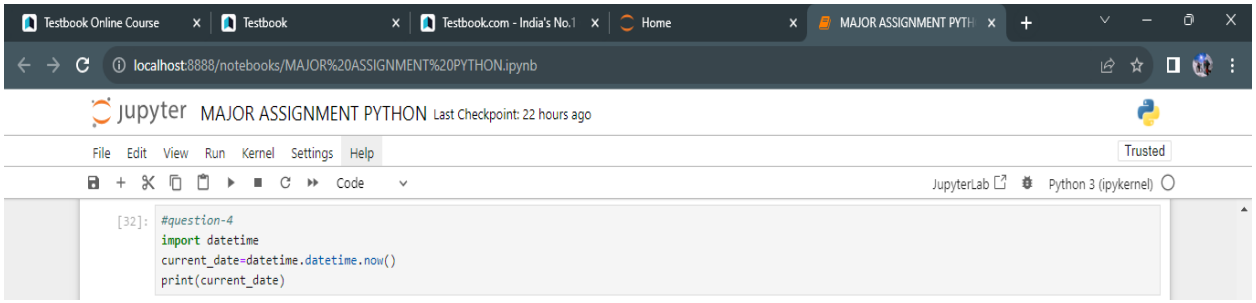
3(2) Check if 9 exists or not.

```
[26]: #question-3
#2
list=test_list=[1,6,3,5,3,4]
print(test_list)
i=9
if i in list:
    print("exist")
else:
    print("not exist")
```

```
[1, 6, 3, 5, 3, 4]
not exist
```

Question 4: Take the user input to print the current date ?

Answer:



Question 5: What is the output of the following code ?

a) Print 9//2
b) Print 9%2

Answer:

```
[34]: #question-5
a=9
b=2
print(a//2)
print(a%2)
```

```
4
1
```

Question 6: Print the First 10 Natural Numbers using a while loop.

Answer:

```
[3]: #question-6
i=1
while (i<=10):
    print(i)
    i=i+1
```

```
1
2
3
4
5
6
7
8
9
10
```

Question 7: Write a program to accept a number from a user and calculate the sum of all numbers from 1 to a given number.

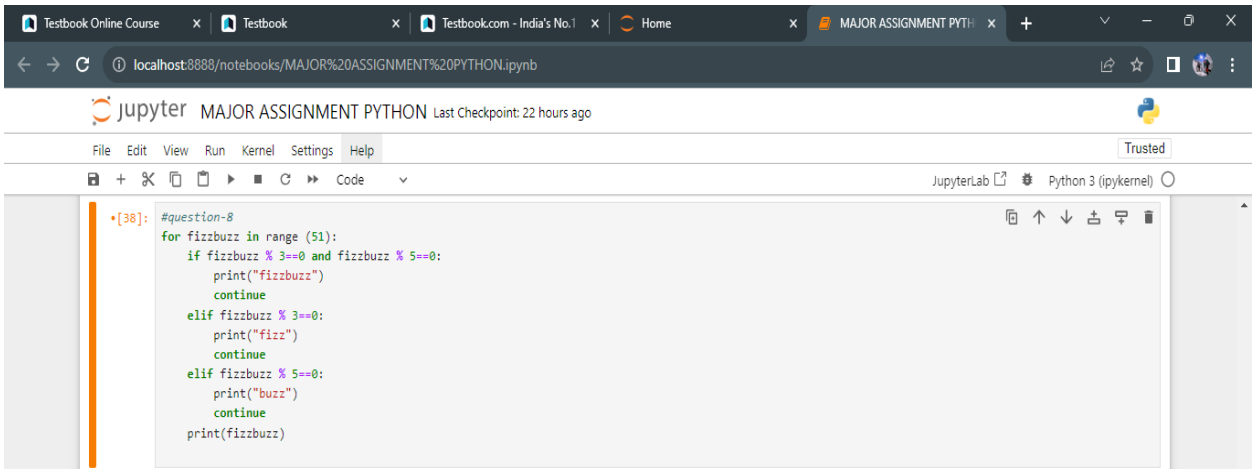
Answer:

```
[22]: #question-7
num=int(input("enter the number:"))
sum=0
for i in range(1,num+1):
    sum=sum+i
    print(sum)
```

```
enter the number: 6
1
3
6
10
15
21
```

Question 8: 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"?

Answer: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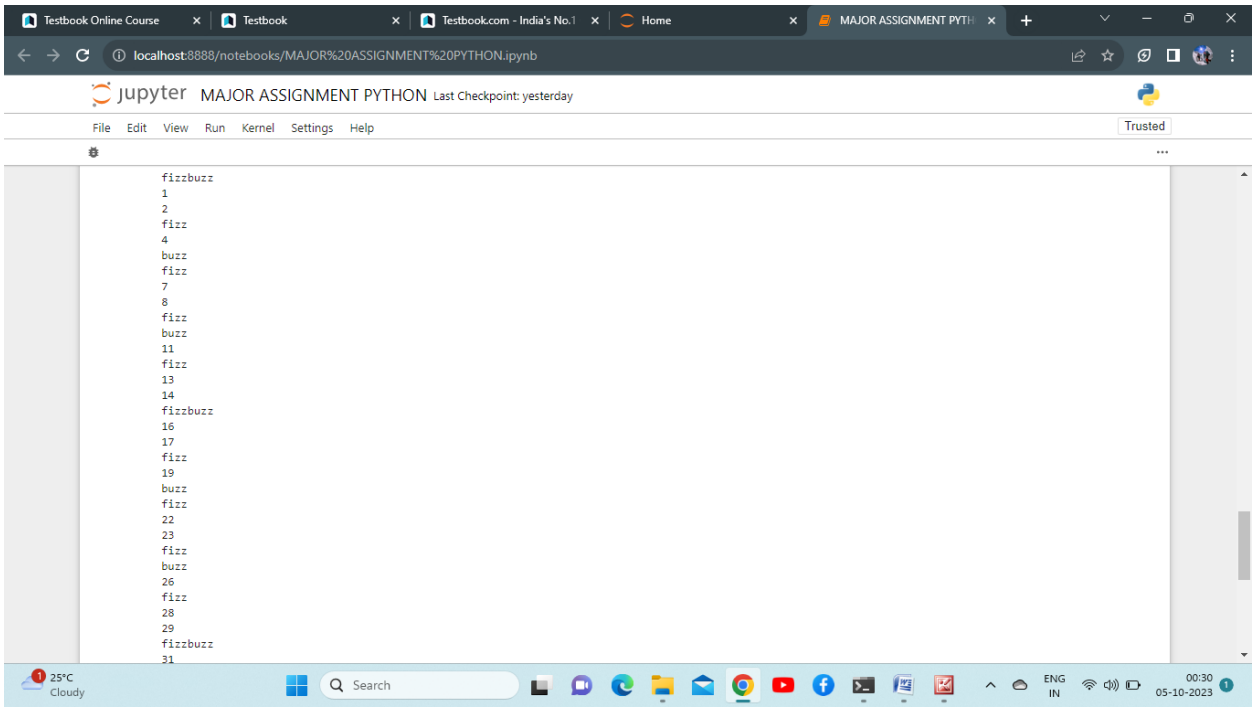
Python 3 (ipykernel)
[38]:
#question-8
for fizzbuzz in range (51):
if fizzbuzz % 3==0 and fizzbuzz % 5==0:
print("fizzbuzz")
continue
elif fizzbuzz % 3==0:
print("fizz")
continue
elif fizzbuzz % 5==0:
print("buzz")
continue
print(fizzbuzz)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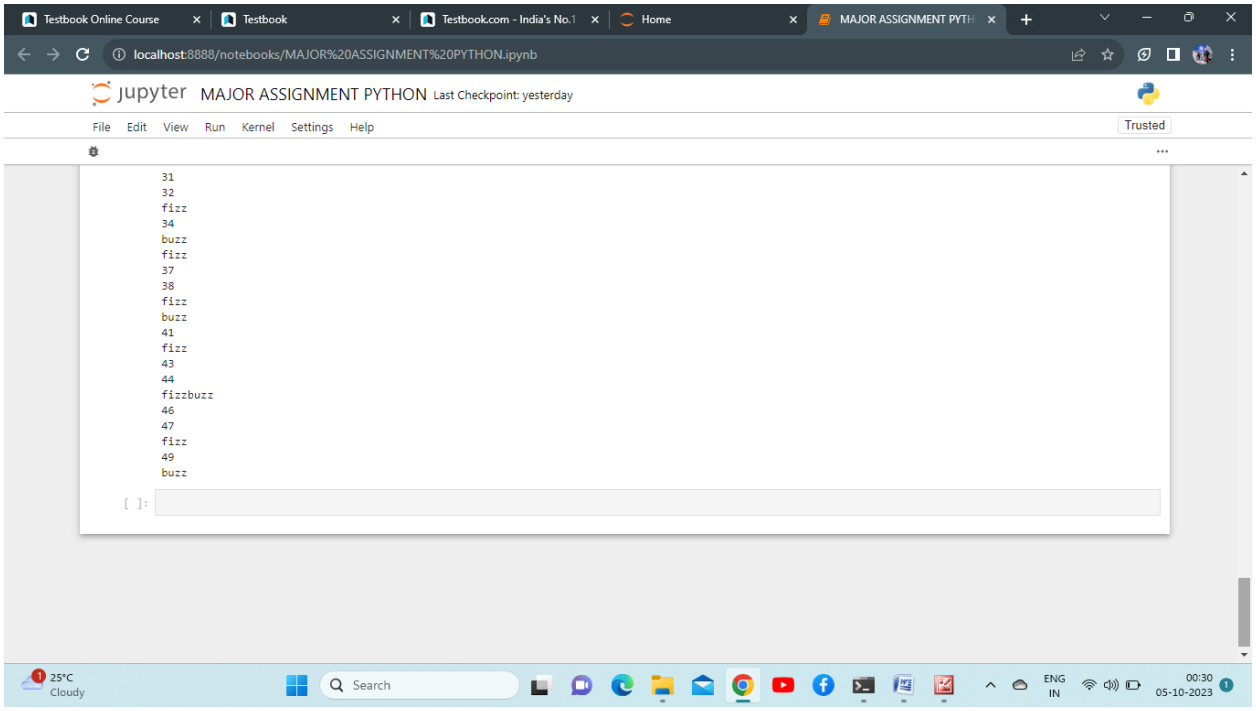
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