### **Answer Sheet - Python**

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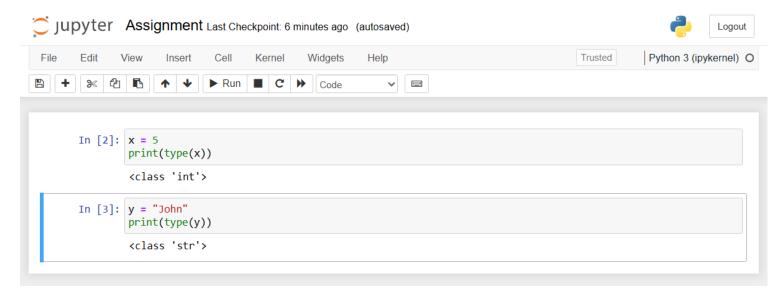
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1. Find the datatype of these two declarations:

```
x = 5
y = "John"
```

#### Code:

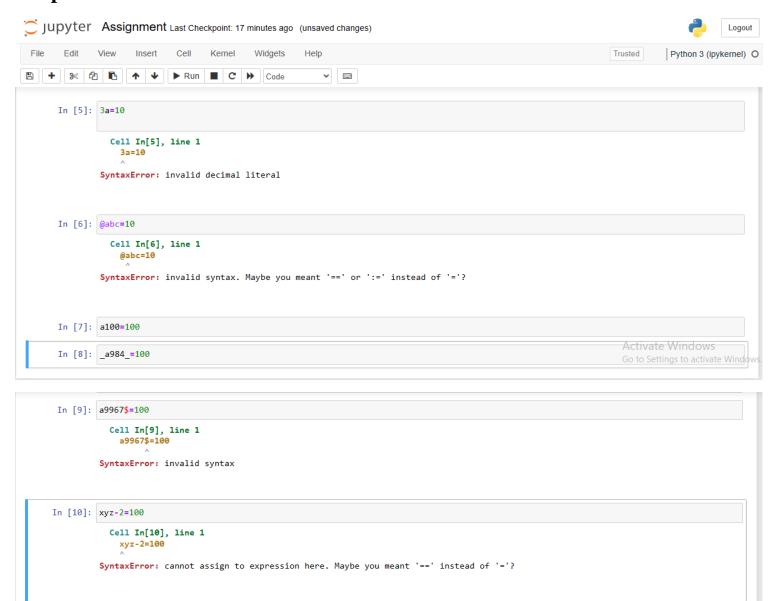
```
print(type(x))
print(type(y))
```



- # X is int because it is integer number without decimal.
- # Y is str because it is enclosed in double quotes ("").

Example: abc = 100 #valid syntax
i. 3a=10
ii. @abc=10
iii. a100=100
iva984_=100
v. a9967\$=100
vi. xyz-2=100
ode:
3a=10
# Invalid syntax (because variable name cannot start with number)
@abc=10
# Invalid syntax (because variable name cannot start with special character except
underscore (_)
a100=100
# Valid syntax (because variable name must start with alphabet or underscore (_)
_a984_=100
# Valid syntax (because variable name must start with alphabet or underscore (_)
a9967\$=100
# Invalid syntax (because variable name cannot have special character except underscore
(_)
xyz-2=100
# Invalid syntax (because variable name cannot have special character except underscore
(_)

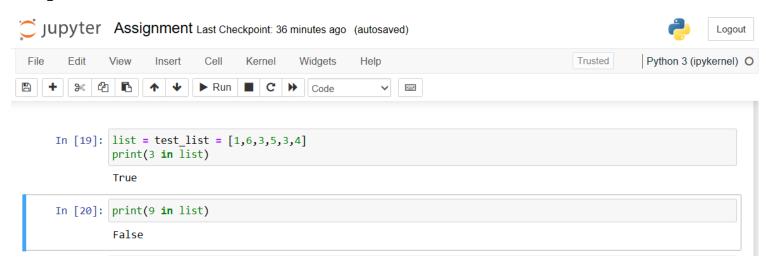
2. Check whether the following syntax is valid or invalid for naming a variable:



- 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

#### **Code:**

```
print(3 in list)
print(9 in list)
```



## 3) Take the user input to print the current date

#### Code:

```
from datetime import date

user = input('If you want to know the current date, Press Y: ')

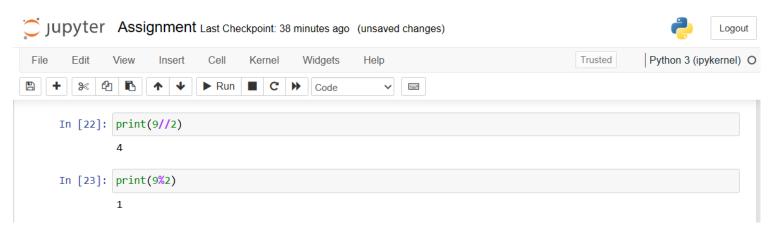
if user == 'Y' or user == 'y':

current_date = date.today()

print(f'Current Date: {current_date}')_date}')
```

- 4. What is the output of the following codes?
  - a. print 9//2
  - b. print 9%2

```
print(9//2)
print(9%2)
```



# 5. Print First 10 natural numbers using a while loop

### **Code:**

```
i = 1
while i \le 10:

print(i)
i+=1
```

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     In [26]: i = 1
             while i <= 10:
                print(i)
             2
             5
```

6. 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

#### Code:

```
num = int(input('Enter a number: '))
sum = 0
for i in range(1,num+1):
    sum = sum + i
print(f'Sum of all numbers from 1 to {num} is {sum}')
```

```
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     In [30]: num = int(input('Enter a number: '))
               sum = 0
               for i in range(1,num+1):
                   sum = sum + i
               print(f'Sum of all numbers from 1 to {num} is {sum}')
               Enter a number: 10
               Sum of all numbers from 1 to 10 is 55
```

7. 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".

Example:
Fizzbuzz

1

2

Fizz

4

buzz

#### **Code:**

```
for i in range(0,51):

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)
```

