

1. Find the datatype of these two declarations:

X=5

Y= "John"

Ans:

+ Code + Text

✓ 0s

▶

```
x=5
y="jhon"
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

Ans:

▶

```
3a=10#invalid syntax
@abc=10#invalid syntax
a100=100#valid syntax
_a984_=100#valid syntax
a9967$=100#invalid syntax
xyz-2=100#invalid syntax
```

3. Check if elements exists in list in python:

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

1. Check if 3 exists or not.

Ans:

+ Code + Text

✓
0s



```
test_list=[1,6,3,5,3,4]
for i in test_list:
    if (i==3):
        print("Element exists")
```



Element exists
Element exists

2. Check if 9 exists or not.

Ans:

+ Code + Text

✓
0s



```
lst=[1,6,3,5,3,4]
i=9
if i in lst:
    print("exist")
else:
    print("not exist")
```

not exist

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

Ans:

+ Code + Text

✓
0s



```
from datetime import date
Today=date.today()
print(Today)
```

2023-03-12

5. what is the output of the following code :

a. print 9//2

Ans:



```
[ ]
```

```
✓ 0s ▶ print(9//2)
```

```
4
```

b. print 9%2

Ans:

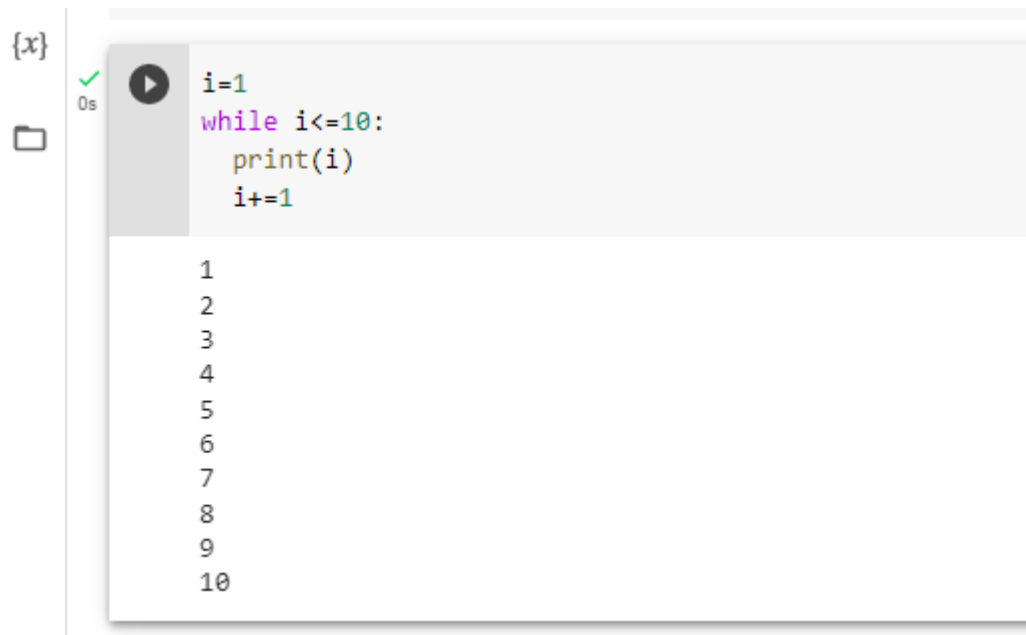


```
✓ 0s ▶ print(9%2)
```

```
1
```

6. Print first 10 natural numbers using a while loop.

Ans:



```
{x}
```

```
✓ 0s ▶ i=1  
while i<=10:  
    print(i)  
    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)

ANS:

The screenshot shows a code editor with a Python script to calculate the sum of numbers from 1 to a user-input number. The code is as follows:

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

The output of the program is shown below the code:

```
Enter a number:10
The sum of all numbers from 1 to a given number is: 55
```

8. 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

Ans:

The screenshot shows a code editor with a Python script for the FizzBuzz problem. The code is as follows:

```
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)
```

The output of the program is shown below the code:

```
fizzbuzz
1
2
fizz
4
buzz
fizz
7
8
fizz
buzz
11
fizz
13
14
fizzbuzz
16
```

At the bottom right of the editor, it says: ✓ 0s completed at 10:30 AM