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Run Code

In [21]:
```
# Q-1 : Findthedatatypeofthesetwodeclaration:
#x=5
#y="John"


x = 5
print("x is of type:", type(x))

y = "John"
print("y is of type:", type(y))
```

```
x is of type: <class 'int'>
y is of type: <class 'str'>
```

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Run Code

In [ ]:
```
# Q-2  Check whether the following syntax is valid or invalid for naming a variable

i.) 3a=10

    Invalid (variable name starts with a digit)

ii.) @abc=10

     Invalid (variable name starts with a special character)

iii.) a100=100

      Valid

iv.) _a984_=100

     Valid

v.) a9967$=100

    Invalid (variable name contains an invalid character)

vi.) xyz-2=100

     Invalid (variable name contains an invalid character)
```

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Run Code

In [25]:
```
# Q-3 : Check if element exists in list in Python--

# i.) Check if '3' exists in the list.

test_list = [1, 6, 3, 5, 3, 4]
if 3 in test_list:
    print("3 exists in the list.")
else:
    print("3 does not exist in the list.")


# ii.) Check if '9' exists in the list.

if 9 in test_list:
    print("9 exists in the list.")
else:
    print("9 does not exist in the list.")


# iii.) Take user input to print the current date.

user_input_date = input("Enter the current date: ")
print("Current date is:", user_input_date)
```

```
3 exists in the list.
9 does not exist in the list.
Enter the current date: 23-7-2023
Current date is: 23-7-2023
```

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Run Code

In [2]:
```
# Q-4 what is the output of the following code

a = 9 // 2
b = 9 % 2

print("9//2=",a)
print("9%2=",b)
```

```
9//2= 4
9%2= 1
```

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Run Code

In [27]:
```
# Q-5 Print First 10 natural numbers using a while loop

n = 1
while n <= 10:
    print(n, end=" ")
    n += 1
```

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

In [30]:
```
# Q-6 Write a program to accept a number from a user and calculate the sum of all numbers from 1 to a given number.

def sum_of_numbers(n):
    sum_result = 0
    for i in range(1, n + 1):
        sum_result += i
    return sum_result

try:
    number = int(input("Enter a positive integer: "))
    if number <= 0:
        print("Please enter a positive integer.")
    else:
        result = sum_of_numbers(number)
        print(f"The sum of all numbers from 1 to {number} is: {result}")
except ValueError:
    print("Invalid input. Please enter a valid positive integer.")
```

```
Enter a positive integer: 15
The sum of all numbers from 1 to 15 is: 120
```

In [31]:
```
# Q-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".

def fizz_buzz():
    for num in range(1, 51):
        if num % 3 == 0 and num % 5 == 0:
            print("FizzBuzz")
        elif num % 3 == 0:
            print("Fizz")
        elif num % 5 == 0:
            print("Buzz")
        else:
            print(num)

fizz_buzz()
```

```
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
```

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Run Code

```
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 [ ]: