In [83]:
```
print("Hello World!")
# This is Python

###public class HelloWorld {
    ###public static void main(String[] args) {
        ###System.out.println("Hello, World!");
###    }
###}
### This is Java

### printf("Hello World!")
### This is C#

### <p>Hello World!<p>
### This is in HTML
```

```
Hello World!
```

In [9]:
```
print("Hello" + str(5))
```

```
Hello5
```

In [16]:
```
full_name = ("Roberto Friedlander")
print("My full name is " + full_name)
```

```
My full name is Roberto Friedlander
```

In [2]:
```
print(" ")
### This creates an empty string
```

In [22]:
```
string_a = "Python"
string_b = "My favorite number is nine"
string_c = "In 2022, Python 3.10.4 and 3.9.12 were expedited and so were older

print(len(string_a))
print(len(string_b))
print(len(string_c))

#Results -
#string_a = 6
#string_b = 26
#string_c = 263
```

```
6
26
263
```

In [13]:
```
answer_a = 998870 * 303
answer_b = 34199820 / 2121.4
answer_c = 9988870 + 34199820 + 2121.4
answer_d = 9988870 + 34199820 + 2121.4 / 2
answer_e = (130 + 45 - 2) / (98 * 2)
answer_f = 332403650 - 332524270
print(answer_a)
print(answer_b)
print(answer_c)
print(answer_d)
print(answer_e)
print(answer_f)

#:Answers
#302657610
#16121.34439521071
#44190811.4
#22095405.7
#0.8316326530612245
#-120620
```

```
302657610
16121.34439521071
44190811.4
44189750.7
0.8826530612244898
-120620
```

In [41]:
```
complete_teams = 325 // 6
remainder = 325 % 6

print("Number of complete teams: " + str(complete_teams))
print("Participants in a team with fewer participants: " + str(remainder))
# Complete teams = 54
# Fewer participants = 1
```

```
Number of complete teams: 54
Participants in a team with fewer participants: 1
```

In [69]:
```
import math

logarithm_of_10 = math.log(10) / math.log(10)
print("Logarithm of 10:", logarithm_of_10)

number = 255
square_root = math.sqrt(number)
print("The square root of " + str(number) + " is: " + str(square_root))

gcd = math.gcd(200,25)
print("The greatest common divisor of 200 and 25 is: " + str(gcd))

participants = 325
team_size = 6
complete_teams = math.floor(participants / team_size)
remainder = participants % team_size
print("There are " + str(complete_teams) + " complete teams")
print("There are " + str(remainder) + " participants in a team with fewer part

#Logarithm of 10: 1.0
#Square root of 255: 15.968719422671311
#GCD of 200 and 25 is: 25
#There are 54 complete teams
#There are 1 participants in a team with fewer participants
```

```
Logarithm of 10: 1.0
The square root of 255 is: 15.968719422671311
The greatest common divisor of 200 and 25 is: 25
There are 54 complete teams
There are 1 participants in a team with fewer participants.
```

In [81]:
```
q_1 = 89 == 7
q_2 = 33243324036500363324036505O != 33243324036500363324036505O
q_3 = 33243324036500363324036505O == 33243324036500363324036505O
q_4 = 89 > 89
q_5 = 89 > 89
q_6 = 89 == 89
q_7 = 89 >= 89
q_8 = 89 <= 89
q_9 = 89 == '89'
q_10 = 89 != '89'
q_11= True == True
q_12 = True == 'True'
q_13 = 'Hello World' == 'Hello World!'
print("Question 1 is " + str(q_1))
print("Question 2 is " + str(q_2))
print("Question 3 is " + str(q_3))
print("Question 4 is " + str(q_4))
print("Question 5 is " + str(q_5))
print("Question 6 is " + str(q_6))
print("Question 7 is " + str(q_7))
print("Question 8 is " + str(q_8))
print("Question 9 is " + str(q_9))
print("Question 10 is " + str(q_10))
print("Question 11 is " + str(q_11))
print("Question 12 is " + str(q_12))
print("Question 13 is " + str(q_13))

#Question 1 is False
#Question 2 is False
#Question 3 is True
#Question 4 is False
#Question 5 is False
#Question 6 is True
#Question 7 is True
#Question 8 is True
#Question 9 is False
#Question 10 is True
#Question 11 is True
#Question 12 is False
#Question 13 is False
```

```
Question 1 is False
Question 2 is False
Question 3 is True
Question 4 is False
Question 5 is False
Question 6 is True
Question 7 is True
Question 8 is True
Question 9 is False
Question 10 is True
Question 11 is True
Question 12 is False
Question 13 is False
```

In [1]:
```
name = "Roberto Friedlander"
major = "Cybersecurity"
age = "18"
print("My name is " + str(name) + " I am majoring in " + major + " and my age

#result - My name is Roberto Friedlander I am majoring in Cybersecurity and my
```

```
My name is Roberto Friedlander I am majoring in Cybersecurity and my age is 1
8.
```

In [3]:
```
# This program says hello and asks for my name.
print('Hello, world!')
print('What is your name?') # ask for their name
myName = input()
print('It is good to meet you, ' + myName)
print ('The length of your name is:')
print(len(myName))
print('What is your age?') # ask for their age
myAge = input ()
print('You will be ' + str(int(myAge) + 1) + ' in a year.')
```

```
Hello, world!
What is your name?
Bob Jones
It is good to meet you, Bob Jones
The length of your name is:
9
What is your age?
47
You will be 48 in a year.
```

In [5]:
```
#Extra Credit

math_1 = (99+34+.21)/2
math_2 = (99+34+.21/2)
print(math_1)
print(math_2)

#These answers are different because in the first problem the computer adds
#the numbers in the parenthesis and then divides that total by 2. Since the se
#contains all numbers, so python follows the order of operations and divides .
#adds the total, resulting in a different answer
```

```
66.605
133.105
```