This is a test line This is a test ###line t = 12 #t is a variable Out[2]: 12 dat #since dat is not assigned anything NameError Traceback (most recent call last) <ipython-input-3-adcfbb3277ac> in <module> ----> 1 dat #since dat is not assigned anything NameError: name 'dat' is not defined This is a test line hello 3**+**3 Out[5]: 6 **Date Types** 1. Boolean (True or False) 2. Texts 3. Numeric True represents 1 and False represents 0 In [6]: # Check if True = 1 True == 1 # Comparison Operator Out[6]: True True + True Out[7]: 2 In [8]: # Example 1 s ="abc123cba" In [9]: Out[9]: 'abc123cba' type(s) #type of the dat or var used Out[10]: str s = 223In [14]: type(s) Out[14]: int s = "machine learning is fun" # Replace function # Replace a with 02 s.replace("a", "f") Out[16]: 'mfchine lefrning is fun' In [24]: s.replace("a", "f",2) Out[24]: 'mfchine lefrning is fun' In [19]: c = abc123cbastring = "Machine Learning" # Basis Functions string.upper() Out[21]: 'MACHINE LEARNING' # Lower Case string.lower() Out[22]: 'machine learning' string.upper() string.capitalize() # First word is capital Out[23]: 'Machine learning' print(string.upper()) MACHINE LEARNING print(string.upper()) print(string.capitalize()) MACHINE LEARNING Machine learning Question Take Input from user and store it in two variables. Take the sum and print the output #Input Command input("enter the first number") enter the first number 343.56 Out[30]: '343.56' In [29]: a = int(input("enter the first number")) #Type-casting # int is used so as to store the input value as interger enter the first number34 b = int(input("enter the second number")) enter the second number 56 c = a+bOut[33]: 90 In [34]: x = int(input("enter the 1st value")) y = int(input("enter the 2nd value")) z = x+yn = x-ym = x/yprint(z,m,n) enter the 1st value4 enter the 2nd value5 9 0.8 -1 In python counting starts from 0 string Out[36]: 'Machine Learning' string[1] Out[35]: 'a' string = "Machine Learning is Fun" In [39]: len(string) Out[39]: 23 string[1] In [40]: string[0:6] Out[40]: 'Machin' In [41]: string[0:6] Out[41]: 'Machin' In [42]: string[0:] Out[42]: 'Machine Learning is Fun' In [43]: string[2:4] Out[43]: 'ch' In [44]: string[:4] Out[44]: 'Mach' In [45]: string[:0] Out[45]: '' In [46]: string[-1] # help print the last letter/location value Out[46]: 'n' In [47]: string[:-1] Out[47]: 'Machine Learning is Fu' In [48]: len(string) Out[48]: 23

first_word = "Machine"
second_word = "Learning"

Multiple variables

a1 = a2 = a3 = a4 = 4

by the user

bmi = w/(h**2)

enter the height2.4 enter the weight34.6

If condition

if(b>a) :

a = 20b = 39

a = 20 b = 39

b is greater

a is greater

a = 12

b = 24c = 32

if(a<b) :

c is greater

AND operator

1 and 1 = 1 # 1 and 0 = 0 # 0 and 1 = 0 # 0 and 0 = 0

if a < b and b >c:

print("true")

hello you are right!

if a < b **and** b < c:

you are wrong!

a = 50 b = 56 c = 40

else :

if(a>c) :

if(a<c) :

a = 40b = 39

In [54]:

Out[51]: 'Machine Learning'

here concat means joining of two words

you will have to calculate BMI bmi = weight/height**2

h = float(input("enter the height"))
w = float(input("enter the weight"))

if(b>a) : #logical test

if(b>a) : #logical test
 print("b is greater")

if(b>a) : #logical test
 print("b is greater")

print("a is greater")

print("c is greater")

print("hello you are right!")

print("hello you are right!")

*** Thanks for Learning **

print("you are wrong!")

print("a is greater")

print("The BmI of the person is " ,bmi)

The BmI of the person is 6.006944444444445

File "<ipython-input-54-b095a3a6deab>", line 4

SyntaxError: unexpected EOF while parsing

#logical test

first_word + ' ' +second_word # concatenation of two words

Question: the height and weight of a person should be inputed

else is in line with if statement

find which one is greater, incomplete for now