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Check what's the type of the following values in the python:
○ 1 is Integer
○ 3.14 is Float
○ "Big Data!" is String
○ 'Big Data!' is String
O True is Boolean
O False is Boolean
○ [1,2,"intruder",3] is List
2.
Write a script that prints the integers from 1 to 100. For multiples of three print "Fizz" instead
, and for the multiples of five print "Buzz". For numbers which are multiples of both print
"FizzBuzz".
for numbers in range(0,101):
    if numbers % 3 == 0 and not numbers % 5 == 0:
         print ("fizz")
    elif numbers % 5 == 0 and not numbers % 3 == 0:
         print ("buzz")
    elif numbers % 3 == 0 and numbers % 5 == 0:
         print ("FIZZBUZZ")
    else:
         print (numbers)
3.
Could you find the maximum or minimum integer value in a list. If we list all the natural
numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these
multiples is 23. Find the sum of all the multiples of 3 or 5 below 1000.
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multiple_sum = 0

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for i in range(1000):
    if (i%3 == 0 or i%5 == 0):
         multiple_sum = multiple_sum + i
print (multiple_sum)
4.
Write a script that takes out all the vowels and response with shortened version the string.
Your script should not be case sensitive.
def remove_vowels(string):
    vowels = ('a', 'e', 'i', 'o', 'u')
    for x in string.lower():
         if x in vowels:
              string = string.replace(x, "")
    # Print string without vowels
    print(string)
string = "BestBuy - Most Comprehensive Electronics Business Warehouse"
string = string.lower()
remove_vowels(string)
Advanced
1. Write a Python program to count the number of characters (character frequency) in a string.
The expected results are two options: [Example: Babak Khosravifar]
O Sorted by alphabetical order [{'a':4, 'b':2, 'f':1, 'i':1, .....}]
O Sorted by the repetition of characters in descending order [{'a':4, 'b':2, 'k':2, 'r':2,
.....}]
def check_frequency(str):
     frequency = {}
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for character in str:
         frequency[character] = str.count(character)
     return frequency
check_frequency("Barjesh Arora")
2. Write a Python program to count the occurrences of each word in a given sentence.
def word_count(str):
     counts = dict()
     words = str.split()
     for word in words:
          if word in counts:
               counts[word] += 1
          else:
               counts[word] = 1
     return counts
print( word_count('Usain Bolt is the fastest runner in the world'))
3. Write a Python program that accepts a comma separated sequence of words as input and
prints the unique words in sorted form (alphanumerically)
items = input("Input comma separated sequence of words")
words = [word for word in items.split(",")]
print(",".join(sorted(list(set(words)))))
Reach
1. Write a program that reads two lists of numbers (4 items minimum) and merge them by
sorting them out ignoring duplicates
first_list = [1, 2, 2, 5]
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 $second_list = [2, 5, 7, 9]$

resultList= list(set(first_list) | set(second_list))

print(resultList)

2. Improve the previous code by ignoring the ones that could be written as a linear combination of any other two numbers (13=2*5+1*3), so if 3 and 5 are there, you should drop 13 if seen.