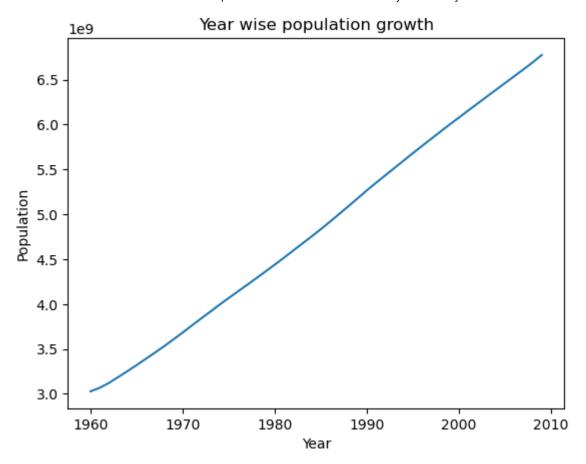
Create a Jupyter notebook where you create a list, iterate over the list and sort your results, generate random numbers, add to the list, and then print your result

```
In [1]:
        # create a list
        my_list = [5, 2, 7, 9, 1, 4, 6, 8, 3]
        print("The list is:", my_list)
        The list is: [5, 2, 7, 9, 1, 4, 6, 8, 3]
In [2]: # iterate over the list and sort your results
        for num in my_list:
            print(num)
        print("The sorted list is:", my_list)
        5
        2
        7
        9
        1
        4
        6
        8
        3
        The sorted list is: [5, 2, 7, 9, 1, 4, 6, 8, 3]
In [3]: # Generate random numbers, add to the list, and then print your results.
        import random
        for i in range(10):
            my_list.append(random.randint(1, 100))
        print("The original list is:", my_list)
        The original list is: [5, 2, 7, 9, 1, 4, 6, 8, 3, 96, 90, 26, 13, 65, 14, 58, 5, 55,
        62]
In [4]: # Create a line chart with Matplotlib and the following data file
        import matplotlib.pyplot as plt #import matplotlib
        import pandas as pd #import pandas
        file = pd.read_excel("C:\\Users\\14024\\OneDrive\\Desktop\\MS-DSC\\DSC-540\\Week-2\\wc
        plt.xlabel('Year') # Label X axis
        plt.ylabel('Population') # label Y axis
        plt.title('Year wise population growth') # Add title
        plt.plot(file.Year, file.Population) # line plot
        [<matplotlib.lines.Line2D at 0x1f0d34158e0>]
Out[4]:
```



```
# Create a list of 100 random numbers
In [5]:
        # Create a new list from this random list, with numbers that are divisible by 3.
        # Calculate the length of these tow lists and store the difference in new variable.
        # Using a loop, perform steps 2 and 3 and find the difference variable 3 times.
        # Find the arithmetic mean of these three different values.
        import random
        LMT = 100
        randomlist = [random.randint(0, LMT) for x in range(0, LMT)]
        randomlist
```

```
[3,
Out[5]:
           82,
           3,
           25,
           86,
           52,
           100,
           94,
           6,
           38,
           10,
           79,
           7,
           12,
           32,
           50,
           55,
           96,
           25,
           19,
           50,
           89,
           44,
           49,
           10,
           43,
           66,
           81,
           84,
           29,
           13,
           73,
           54,
           11,
           90,
           92,
           65,
           33,
           59,
           37,
           77,
           70,
           5,
           3,
           34,
           91,
           15,
           10,
           39,
           81,
           55,
           0,
           89,
           3,
           69,
           1,
           38,
           29,
           82,
           37,
```

53,

```
48,
          60,
          24,
         17,
         5,
          32,
         6,
          27,
          86,
          10,
          94,
          64,
          9,
          32,
          9,
          97,
          53,
         43,
          6,
          71,
          37,
          60,
          55,
          37,
         17,
          71,
          35,
          28,
          76,
          27,
          84,
          25,
          56,
          33,
          58,
          18,
          51,
          76,
         63]
In [6]: # Create a new list from this random list, with numbers that are divisible by 3.
         randomlist1 = []
         for n in randomlist:
             if n % 3 == 0:
                 randomlist1.append(n)
         print(randomlist1)
        [3, 3, 6, 12, 96, 66, 81, 84, 54, 90, 33, 3, 15, 39, 81, 0, 3, 69, 48, 60, 24, 6, 27,
        9, 9, 6, 60, 27, 84, 33, 18, 51, 63]
In [7]: #calculae length of randomlist
        len(randomlist)
         #calculae length of randomlist1
         len(randomlist1)
         # Calculate the difference in length and store in a variable
         diff_len = len(randomlist) - len(randomlist1)
         diff_len
```

67 Out[7]:

```
In [8]: ITERATION_NO = 3
         difference_list = []
         for i in range(0, ITERATION_NO):
             randomlist = [random.randint(0, LMT) for x in range(0, LMT)]
             list_divisible_by_3 = [a for a in randomlist if a % 3 == 0]
             length_of_random_list = len(randomlist)
             length_of_3_divisible_list = len(list_divisible_by_3)
              difference = length_of_random_list - length_of_3_divisible_list
             difference list.append(difference)
          difference_list
         [68, 56, 70]
 Out[8]:
 In [9]: avg_diff = sum(difference_list) / float(len(difference_list))
         avg_diff
         64.666666666667
Out[9]:
In [10]: # Get a multiline text and save it in a python variable
         # Get rid of all new lines in it using string methods
         # Get all the unique words and their occurances from the string
          # Repeat the step to find all unique words and occurances, without considering case se
In [11]:
        mutiline_text = """It is a truth universally acknowledged, that a single man in posses
         However little known the feelings or views of such a man may be on his first entering
          "My dear Mr. Bennet," said his lady to him one day, "have you heard that Netherfield F
         Mr. Bennet replied that he had not.
          "But it is," returned she; "for Mrs. Long has just been here, and she told me all abou
         Mr. Bennet made no answer.
          "Do you not want to know who has taken it?" cried his wife impatiently.
          "You want to tell me, and I have no objection to hearing it."
          This was invitation enough.
          "Why, my dear, you must know, Mrs. Long says that Netherfield is taken by a young man
          "What is his name?"
          "Bingley."
          "Is he married or single?"
          "Oh! Single, my dear, to be sure! A single man of large fortune; four or five thousand
          "How so? How can it affect them?"
          "My dear Mr. Bennet," replied his wife, "how can you be so tiresome! You must know tha
```

```
"Is that his design in settling here?"
"Design! Nonsense, how can you talk so! But it is very likely that he may fall in love
"I see no occasion for that. You and the girls may go, or you may send them by themsel
"My dear, you flatter me. I certainly have had my share of beauty, but I do not preter
"In such cases, a woman has not often much beauty to think of."
"But, my dear, you must indeed go and see Mr. Bingley when he comes into the neighbour
"It is more than I engage for, I assure you."
"But consider your daughters. Only think what an establishment it would be for one of
"You are over-scrupulous, surely. I dare say Mr. Bingley will be very glad to see you;
"I desire you will do no such thing. Lizzy is not a bit better than the others; and I
"They have none of them much to recommend them," replied he; "they are all silly and i
"Mr. Bennet, how can you abuse your own children in such a way? You take delight in ve
"You mistake me, my dear. I have a high respect for your nerves. They are my old frier
"Ah, you do not know what I suffer."
"But I hope you will get over it, and live to see many young men of four thousand a ye
"It will be no use to us, if twenty such should come, since you will not visit them."
"Depend upon it, my dear, that when there are twenty, I will visit them all."
Mr. Bennet was so odd a mixture of quick parts, sarcastic humour, reserve, and caprice
type(mutiline text)
```

Out[11]:

```
len(mutiline_text)
In [12]:
         mutiline text = mutiline text.replace('\n', "")
          # remove special chars
          clean_multiline_text = ""
          for char in mutiline_text:
             if char == " ":
                  clean_multiline_text += char
             elif char.isalnum():
                  clean_multiline_text += char
                  clean_multiline_text += " "
          clean multiline text
```

Out[12]:

'It is a truth universally acknowledged that a single man in possession of a good fo rtune must be in want of a wife However little known the feelings or views of such a man may be on his first entering a neighbourhood this truth is so well fixed in the minds of the surrounding families that he is considered the rightful property of som e one or other of their daughters My dear Mr Bennet said his lady to him one day have you heard that Netherfield Park is let at last Mr Bennet replied that he had n returned she for Mrs Long has just been here and she told me all about it Mr Bennet made no answer Do you not want to know who has taken it cried his wife impatiently You want to tell me and I have no objection to hearing it Thi s was invitation enough Why my dear you must know Mrs Long says that Netherfield is taken by a young man of large fortune from the north of England that he came down on Monday in a chaise and four to see the place and was so much delighted with it t hat he agreed with Mr Morris immediately that he is to take possession before Micha elmas and some of his servants are to be in the house by the end of next week is his name Bingley Is he married or single Oh Single my dear to be sure A single man of large fortune four or five thousand a year What a fine thing for our How so How can it affect them My dear Mr Bennet replied his wife can you be so tiresome You must know that I am thinking of his marrying one of them Is that his design in settling here Design Nonsense how can you talk so But it i s very likely that he may fall in love with one of them and therefore you must visit him as soon as he comes I see no occasion for that You and the girls may go or yo u may send them by themselves which perhaps will be still better for as you are as handsome as any of them Mr Bingley may like you the best of the party My dear yo u flatter me I certainly have had my share of beauty but I do not pretend to be any thing extraordinary now When a woman has five grown up daughters she ought to give over thinking of her own beauty 
In such cases a woman has not often much beauty to But my dear you must indeed go and see Mr Bingley when he comes into th It is more than I engage for I assure you But consider your daug e neighbourhood hters Only think what an establishment it would be for one of them Sir William and Lady Lucas are determined to go merely on that account for in general you know th ey visit no newcomers Indeed you must go for it will be impossible for us to visit him if you do not You are over scrupulous surely I dare say Mr Bingley will be v ery glad to see you and I will send a few lines by you to assure him of my hearty co nsent to his marrying whichever he chooses of the girls though I must throw in a goo d word for my little Lizzy I desire you will do no such thing Lizzy is not a bit b etter than the others and I am sure she is not half so handsome as Jane nor half so good humoured as Lydia But you are always giving her the preference They have none of them much to recommend them replied he they are all silly and ignorant like ot her girls but Lizzy has something more of quickness than her sisters Mr Bennet h ow can you abuse your own children in such a way You take delight in vexing me You have no compassion for my poor nerves You mistake me my dear I have a high respec t for your nerves They are my old friends I have heard you mention them with consid eration these last twenty years at least Ah you do not know what I suffer hope you will get over it and live to see many young men of four thousand a year com e into the neighbourhood It will be no use to us if twenty such should come since you will not visit them Depend upon it my dear that when there are twenty I will visit them all Mr Bennet was so odd a mixture of quick parts sarcastic humour res erve and caprice that the experience of three and twenty years had been insufficien t to make his wife understand his character Her mind was less difficult to develop She was a woman of mean understanding little information and uncertain temper When she was discontented she fancied herself nervous. The business of her life was to ge t her daughters married its solace was visiting and news '

```
In [13]: list_of_words = clean_multiline_text.split()
         list_of_words
         # Use set to get unique words
         unique words as dict = dict.fromkeys(list of words)
         len(list(unique_words_as_dict.keys()))
```

```
9/10/23, 11:42 PM
```

340 Out[13]:

```
In [14]:
         for word in list_of_words:
             if unique_words_as_dict[word] is None:
                  unique_words_as_dict[word] = 1
             else:
                  unique_words_as_dict[word] += 1
         unique_words_as_dict
```

```
{'It': 3,
Out[14]:
           'is': 12,
           'a': 20,
           'truth': 2,
           'universally': 1,
           'acknowledged': 1,
           'that': 15,
           'single': 3,
           'man': 4,
           'in': 11,
           'possession': 2,
           'of': 29,
           'good': 3,
           'fortune': 3,
           'must': 7,
           'be': 11,
           'want': 3,
           'wife': 4,
           'However': 1,
           'little': 3,
           'known': 1,
           'the': 17,
           'feelings': 1,
           'or': 5,
           'views': 1,
           'such': 5,
           'may': 5,
           'on': 3,
           'his': 11,
           'first': 1,
           'entering': 1,
           'neighbourhood': 3,
           'this': 1,
           'so': 8,
           'well': 1,
           'fixed': 1,
           'minds': 1,
           'surrounding': 1,
           'families': 1,
           'he': 11,
           'considered': 1,
           'rightful': 1,
           'property': 1,
           'some': 2,
           'one': 5,
           'other': 2,
           'their': 1,
           'daughters': 4,
           'My': 3,
           'dear': 8,
           'Mr': 10,
           'Bennet': 6,
           'said': 1,
           'lady': 1,
           'to': 22,
           'him': 4,
           'day': 1,
           'have': 7,
           'you': 24,
           'heard': 2,
```

```
'Netherfield': 2,
'Park': 1,
'let': 1,
'at': 2,
'last': 2,
'replied': 3,
'had': 3,
'not': 9,
'But': 6,
'it': 11,
'returned': 1,
'she': 6,
'for': 12,
'Mrs': 2,
'Long': 2,
'has': 5,
'just': 1,
'been': 2,
'here': 2,
'and': 17,
'told': 1,
'me': 5,
'all': 3,
'about': 1,
'made': 1,
'no': 7,
'answer': 1,
'Do': 1,
'know': 5,
'who': 1,
'taken': 2,
'cried': 1,
'impatiently': 1,
'You': 7,
'tell': 1,
'I': 17,
'objection': 1,
'hearing': 1,
'This': 1,
'was': 8,
'invitation': 1,
'enough': 1,
'Why': 1,
'my': 10,
'says': 1,
'by': 4,
'young': 2,
'large': 2,
'from': 1,
'north': 1,
'England': 1,
'came': 1,
'down': 1,
'Monday': 1,
'chaise': 1,
'four': 3,
'see': 5,
'place': 1,
'much': 3,
'delighted': 1,
```

```
'with': 4,
'agreed': 1,
'Morris': 1,
'immediately': 1,
'take': 2,
'before': 1,
'Michaelmas': 1,
'servants': 1,
'are': 8,
'house': 1,
'end': 1,
'next': 1,
'week': 1,
'What': 2,
'name': 1,
'Bingley': 4,
'Is': 2,
'married': 2,
'Oh': 1,
'Single': 1,
'sure': 2,
'A': 1,
'five': 2,
'thousand': 2,
'year': 2,
'fine': 1,
'thing': 2,
'our': 1,
'girls': 4,
'How': 2,
'can': 4,
'affect': 1,
'them': 11,
'how': 3,
'tiresome': 1,
'am': 2,
'thinking': 2,
'marrying': 2,
'design': 1,
'settling': 1,
'Design': 1,
'Nonsense': 1,
'talk': 1,
'very': 2,
'likely': 1,
'fall': 1,
'love': 1,
'therefore': 1,
'visit': 5,
'as': 7,
'soon': 1,
'comes': 2,
'occasion': 1,
'go': 4,
'send': 2,
'themselves': 1,
'which': 1,
'perhaps': 1,
'will': 9,
'still': 1,
```

```
'better': 2,
'handsome': 2,
'any': 1,
'like': 2,
'best': 1,
'party': 1,
'flatter': 1,
'certainly': 1,
'share': 1,
'beauty': 3,
'but': 2,
'do': 4,
'pretend': 1,
'anything': 1,
'extraordinary': 1,
'now': 1,
'When': 2,
'woman': 3,
'grown': 1,
'up': 1,
'ought': 1,
'give': 1,
'over': 3,
'her': 5,
'own': 2,
'In': 1,
'cases': 1,
'often': 1,
'think': 2,
'indeed': 1,
'when': 2,
'into': 2,
'more': 2,
'than': 3,
'engage': 1,
'assure': 2,
'consider': 1,
'your': 3,
'Only': 1,
'what': 2,
'an': 1,
'establishment': 1,
'would': 1,
'Sir': 1,
'William': 1,
'Lady': 1,
'Lucas': 1,
'determined': 1,
'merely': 1,
'account': 1,
'general': 1,
'they': 2,
'newcomers': 1,
'Indeed': 1,
'impossible': 1,
'us': 2,
'if': 2,
'scrupulous': 1,
'surely': 1,
'dare': 1,
```

```
'say': 1,
'glad': 1,
'few': 1,
'lines': 1,
'hearty': 1,
'consent': 1,
'whichever': 1,
'chooses': 1,
'though': 1,
'throw': 1,
'word': 1,
'Lizzy': 3,
'desire': 1,
'bit': 1,
'others': 1,
'half': 2,
'Jane': 1,
'nor': 1,
'humoured': 1,
'Lydia': 1,
'always': 1,
'giving': 1,
'preference': 1,
'They': 2,
'none': 1,
'recommend': 1,
'silly': 1,
'ignorant': 1,
'something': 1,
'quickness': 1,
'sisters': 1,
'abuse': 1,
'children': 1,
'way': 1,
'delight': 1,
'vexing': 1,
'compassion': 1,
'poor': 1,
'nerves': 2,
'mistake': 1,
'high': 1,
'respect': 1,
'old': 1,
'friends': 1,
'mention': 1,
'consideration': 1,
'these': 1,
'twenty': 4,
'years': 2,
'least': 1,
'Ah': 1,
'suffer': 1,
'hope': 1,
'get': 2,
'live': 1,
'many': 1,
'men': 1,
'come': 2,
'use': 1,
'should': 1,
```

```
'since': 1,
           'Depend': 1,
           'upon': 1,
           'there': 1,
           'odd': 1,
           'mixture': 1,
           'quick': 1,
           'parts': 1,
           'sarcastic': 1,
           'humour': 1,
           'reserve': 1,
           'caprice': 1,
           'experience': 1,
           'three': 1,
           'insufficient': 1,
           'make': 1,
           'understand': 1,
           'character': 1,
           'Her': 1,
           'mind': 1,
           'less': 1,
           'difficult': 1,
           'develop': 1,
           'She': 1,
           'mean': 1,
           'understanding': 1,
           'information': 1,
           'uncertain': 1,
           'temper': 1,
           'discontented': 1,
           'fancied': 1,
           'herself': 1,
           'nervous': 1,
           'The': 1,
           'business': 1,
           'life': 1,
           'its': 1,
           'solace': 1,
           'visiting': 1,
           'news': 1}
In [15]: top_words = sorted(unique_words_as_dict.items(), key=lambda key_val_tuple: key_val_tuple
```

top words[:25]

```
[('of', 29),
Out[15]:
           ('you', 24),
           ('to', 22),
           ('a', 20),
           ('the', 17),
           ('and', 17),
           ('I', 17),
           ('that', 15),
           ('is', 12),
           ('for', 12),
           ('in', 11),
           ('be', 11),
           ('his', 11),
           ('he', 11),
           ('it', 11),
           ('them', 11),
           ('Mr', 10),
           ('my', 10),
           ('not', 9),
           ('will', 9),
           ('so', 8),
           ('dear', 8),
           ('was', 8),
           ('are', 8),
           ('must', 7)]
In [16]: import itertools
          perms = itertools.permutations((0, 1, 2))
          for p in perms:
              print(p)
              print(type(p))
              print(isinstance(p, (tuple,)))
          (0, 1, 2)
          <class 'tuple'>
         True
          (0, 2, 1)
         <class 'tuple'>
         True
          (1, 0, 2)
         <class 'tuple'>
         True
          (1, 2, 0)
          <class 'tuple'>
         True
          (2, 0, 1)
          <class 'tuple'>
         True
          (2, 1, 0)
          <class 'tuple'>
         True
         # Define a Lambda function to drop leading zeros
In [24]:
          drop_leading_zeros = lambda x: tuple(dropwhile(lambda y: y == 0, x))
          # Apply the lambda function to each tuple
          result_tuples = [drop_leading_zeros(t) for t in possible_tuples]
          # Check the type of dropwhile's return
          dropwhile_return_type = type(next(iter(dropwhile(lambda y: y == 0, possible_tuples[0])
```

```
# Print the resulting tuples and the type of dropwhile's return
          print("Resulting Tuples:", result_tuples)
          print("Type of dropwhile's Return:", dropwhile_return_type)
         # Define a function to convert the list into a whole number
          def tuple to whole number(lst):
             return int(''.join(map(str, lst)))
         # Test the function with the first result tuple
          first_result_as_number = tuple_to_whole_number(result_tuples[0])
          print("First Result as Whole Number:", first_result_as_number)
          # Validate the return type is a number, not a string
          print("Type of Whole Number:", type(first result as number))
         Resulting Tuples: [(1, 2), (2, 1), (1, 0, 2), (1, 2, 0), (2, 0, 1), (2, 1, 0)]
         Type of dropwhile's Return: <class 'int'>
         First Result as Whole Number: 12
         Type of Whole Number: <class 'int'>
In [25]: from itertools import zip_longest
         def return dict from csv line(header, line):
             # Zip them
             zipped_line = zip_longest(header, line, fillvalue=None)
             # Use dict comprehension to generate the final dict
             ret_dict = {kv[0]: kv[1] for kv in zipped_line}
              return ret dict
In [27]: with open("C:\\Users\\14024\\OneDrive\\Desktop\\MS-DSC\\DSC-540\\Week-2\\sales_record.
             first_line = fd.readline()
             header = first_line.replace("\n", "").split(",")
             for i, line in enumerate(fd):
                 # Here we loop over the first 10 lines in order to not to make the output too
                 line = line.replace("\n", "").split(",")
                 d = return_dict_from_csv_line(header, line)
                 print(d)
                 if i > 10:
                     break
```

```
{'Region': 'Central America and the Caribbean', 'Country': 'Antigua and Barbuda ', 'I
tem Type': 'Baby Food', 'Sales Channel': 'Online', 'Order Priority': 'M', 'Order Dat
e': '12/20/2013', 'Order ID': '957081544', 'Ship Date': '1/11/2014', 'Units Sold': '5
52', 'Unit Price': '255.28', 'Unit Cost': '159.42', 'Total Revenue': '140914.56', 'To
tal Cost': '87999.84', 'Total Profit': '52914.72'}
{'Region': 'Central America and the Caribbean', 'Country': 'Panama', 'Item Type': 'Sn
acks', 'Sales Channel': 'Offline', 'Order Priority': 'C', 'Order Date': '7/5/2010',
'Order ID': '301644504', 'Ship Date': '7/26/2010', 'Units Sold': '2167', 'Unit Pric
e': '152.58', 'Unit Cost': '97.44', 'Total Revenue': '330640.86', 'Total Cost': '2111
52.48', 'Total Profit': '119488.38'}
{'Region': 'Europe', 'Country': 'Czech Republic', 'Item Type': 'Beverages', 'Sales Ch
annel': 'Offline', 'Order Priority': 'C', 'Order Date': '9/12/2011', 'Order ID': '478
051030', 'Ship Date': '9/29/2011', 'Units Sold': '4778', 'Unit Price': '47.45', 'Unit
Cost': '31.79', 'Total Revenue': '226716.10', 'Total Cost': '151892.62', 'Total Profi
t': '74823.48'}
{'Region': 'Asia', 'Country': 'North Korea', 'Item Type': 'Cereal', 'Sales Channel':
'Offline', 'Order Priority': 'L', 'Order Date': '5/13/2010', 'Order ID': '892599952',
'Ship Date': '6/15/2010', 'Units Sold': '9016', 'Unit Price': '205.70', 'Unit Cost':
'117.11', 'Total Revenue': '1854591.20', 'Total Cost': '1055863.76', 'Total Profit':
'798727.44'}
{'Region': 'Asia', 'Country': 'Sri Lanka', 'Item Type': 'Snacks', 'Sales Channel': 'O
ffline', 'Order Priority': 'C', 'Order Date': '7/20/2015', 'Order ID': '571902596',
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