

Sathish_K_Rajendiran_Week4_Async_4.3_Categorical

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Week 4.2 – Functions Activity

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Task: 4.3 Categorical

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[22]: # # Write a program which repeatedly reads numbers until the user enters 'done'.
      ↪
      # Once 'done' is entered, print out the total, count, and average of the
      ↪ numbers.
      # If the user enters anything other than a number, detect their mistake using
      ↪ try and except
      # and print an error message and skip to the next number.

      # # Submit your code and the results you got from running your program.

      print("***** Data Entry begins *****")
      numlist = [] #empty list to hold the numbers
      while True:
          inp = input('Enter a score:')
          if inp == 'Done':
              print("***** Data Entry Ends *****")
              break
          try:
              n = float(inp)
              numlist.append(n)
          except ValueError:
              print("Bad Value")

      #Exploring functions to calculate Count,Sum and Average of items from the list
      def numfunctions():
          l = len(numlist)
          if l >0:
              print("\n***** Fnction Call begins *****")
              nsum = sum(numlist)
              navg = nsum/l
              print('Number of items:',round(l,2))
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        print('Avg of the items:',round(navg,2))
        print('Sum of the items:',round(nsum))
        print("***** Fnction Call Ends *****")
    else:
        print("Empty List")

numfunctions()
```

```
***** Data Entry begins *****
Enter a score:2
Enter a score:3
Enter a score:4
Enter a score:Done
***** Data Entry Ends *****

***** Fnction Call begins *****
Number of items: 3
Avg of the items: 3.0
Sum of the items: 9
***** Fnction Call Ends *****
```

[]: