We used the ***random*** function to determine which one of our five inputs was going to be removed. This is our fourth laboratory activity under the subject **Application Development and Emerging Technologies**, under Mr. Deri Estrobo of De La Salle University–Dasmariñas.

# The Process

## Output

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The pictures shown above represent three different types of inputs accepted. The first one consists of only strings, the second one a mix of strings and integers, and the final one consists only of integers.

## Code

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| --- | --- |
| Source Code | Explanation |
| # # De La Salle University–Dasmariñas  # S-ITCS227LA — Application Development and Emerging Technologies (Laboratory)    # Luis Anton P. Imperial  # BCS22    # Monday, February 19, 2024  # Laboratory Activity No. 4    # Create a 5-user input list that accept either string or number then select an item randomly from a list and remove the selected item randomly in the list.  # Submit a pdf file (LabAct4\_Surname) that contains the explanation of the code and include 3 sample output screenshot and python file. | Comments explaining the circumstances behind this script. |
| import random; | Get module that contains core functionality needed. |
| class randomFromList:  def \_\_init\_\_(self): | Create modular class that can be used in other scripts. |
| self.app\_name: str = "MyRandomizer"; | Define name of app, used for greetings at start/end. |
| self.list: list = []; | Initialize list for items to be placed on |
| self.list\_items: int = 5; | Describe the number of items to ask for. Default is 5. |
| def add\_element(self): | When this function is run, it will ask for an element one time. |
| input\_to\_add = input("Enter either a string or a number: "); | Ask for input and place it into a variable. |
| self.list.append(input\_to\_add); | Add value of said variable into the list we created earlier. |
| def add\_multiple\_elements(self):  # Define a new variable counting all the items added.  items\_added: int = 0;    # Loop around until “items\_added” is equal to limit set in init.  while(items\_added < self.list\_items):  self.add\_element();  items\_added += 1; | Create loop, so we can have the ability to add elements one-by-one to array. |
| def remove\_random\_element(self):  item\_to\_remove = random.choice(self.list);  print("Randomly selected item from the list:", item\_to\_remove);    self.list.remove(item\_to\_remove);  print("Items remaining:", self.list); | Select a random element, remove it, show it, and then show the rest of the list. |
| def welcome(self):  # Greet user.  print("—————", "Welcome to", self.app\_name, "—————");  print("");    # Invoke first function.  self.add\_multiple\_elements();  print("");    # Invoke second function.  self.remove\_random\_element();    # Thank user.  print("");  print("—————", "Thank you for using", self.app\_name, "—————"); | This function handles the Terminal User Interface (TUI) of the script. |
| def main():  randomizer\_app = randomFromList()  randomizer\_app.welcome(); | Create object using said class. |
| if \_\_name\_\_ == "\_\_main\_\_":  main(); | Launch local function. |

# Appendices

## Further Reading

* Imperial, Luis Anton (2024). “*LabAct4\_Imperial\_Source.py*.” Retrieved from <<https://dlsudphl-my.sharepoint.com/:u:/g/personal/ilp0824_dlsud_edu_ph/EZ7AE8rhSVxHuQ4uYA_1pngB-DwTsqt68-jPXdjtJzv3qg?e=3d57RT>>.
* Estrobo, Deri (2024). “Laboratory Activity No. 4.” Retrieved from <<https://dlsud.edu20.org/files/11884423/LabAct_4(2).jpg?lmsauth=2c170c63f090a4a60f1e28c9c97120c8a13bf771>>.

## Instructions

|  |  |
| --- | --- |
| Create a 5-user input list that accept either string or number then select an item randomly from a list and remove the selected item randomly in the list.  Submit a pdf file (LabAct4\_Surname) that contains the explanation of the code and include 3 sample output screenshot and python file. | * Type: Dropbox * Max score: 50 * Category: Enabling Asssessment * Start: Feb 19, 10:00 am * Due: Feb 19, 1:00 pm |
| * Max. attempts: 2 * Allow late submissions: ❌ |

## Screen Captures of Code Written



