

# SD21063 TEAN JIN HE Data Wrangling Lab Report 1

April 21, 2023

## 1 DATA WRANGLING LAB REPORT 1

1.0.1 Name: Tean Jin He

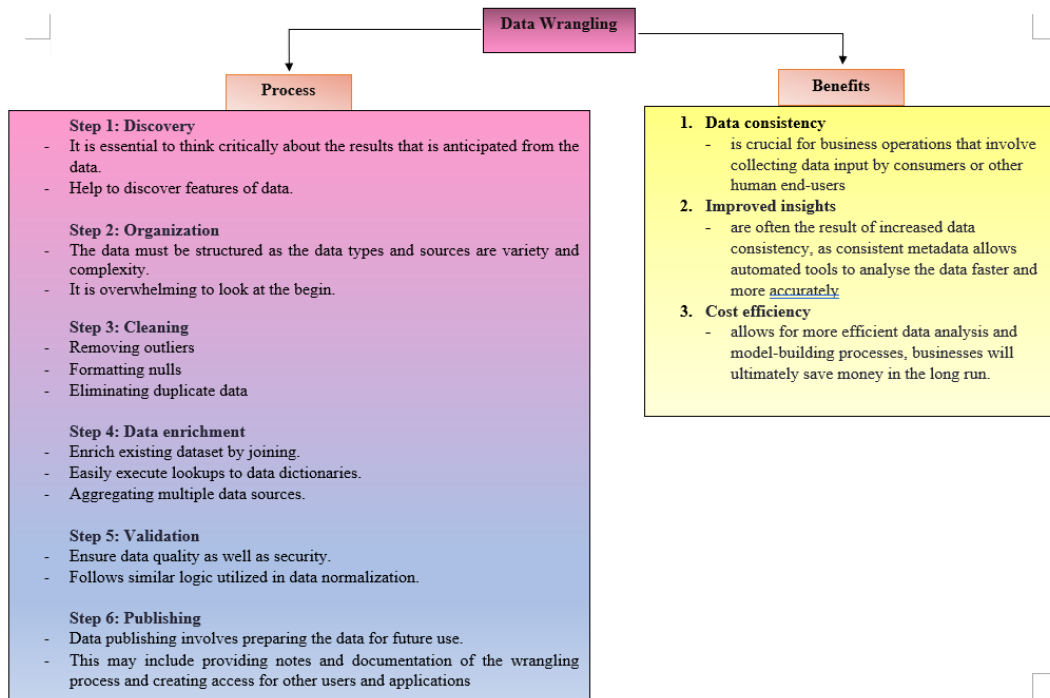
1.0.2 Matric ID : SD21063

1.0.3 Section: 02G

Question 1

```
[7]: from IPython.display import Image
Image("Question1 mindmap.png")
```

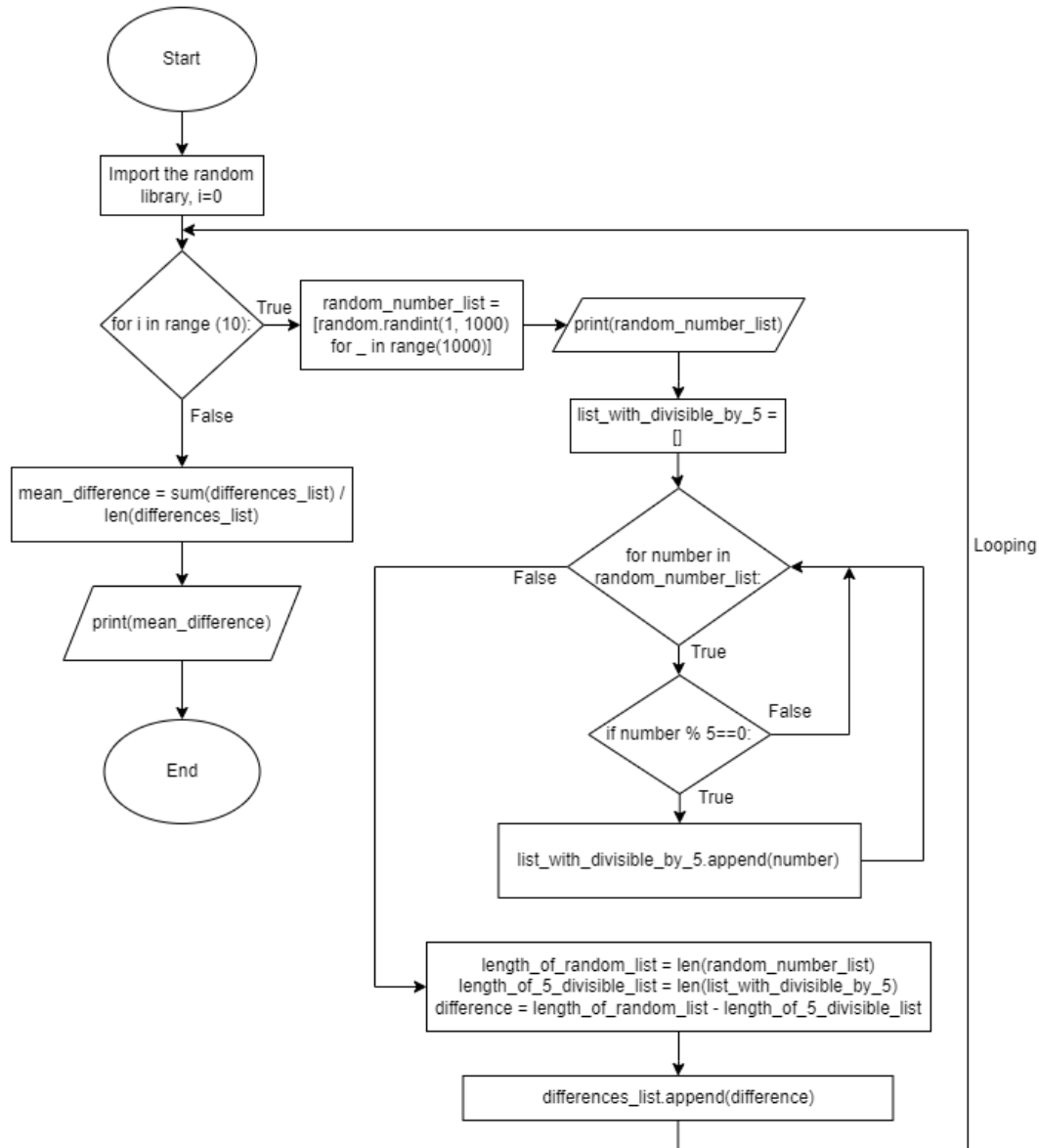
[7]:



Question 2

```
[6]: from IPython.display import Image
Image("Question2 flowchart.png")
```

[6]: Flowchart



```
[4]: ##Coding of Question 2
# 1. Import the random library.
import random

# 2. Use the randint method from the random library to create 1000 random
↪ numbers.
```

```

##random_number_list = [random.randint(1, 1000) for _ in range(1000)]

# 3. Print random_number_list.
##print(random_number_list)

# 4. Create a list_with_divisible_by_5 list from random_number_list, which will
    ↳ contain only numbers
# that are divisible by 5.
##list_with_divisible_by_5 = []
##for number in random_number_list:
    ##if number % 5 == 0:
        ##list_with_divisible_by_5.append(number)

# 5. Use the len function to measure the length of the first list and the
    ↳ second list, and store them in
# two different variables, length_of_random_list and length_of_5_divisible_list.
    ↳ Calculate the
# difference in length in a variable called difference.
##length_of_random_list = len(random_number_list)
##length_of_5_divisible_list = len(list_with_divisible_by_5)
##difference = length_of_random_list - length_of_5_divisible_list

# 6. Combine the tasks we have performed so far and add a for loop to it. Run
    ↳ the loop 10 times
# and add the values of the difference variables to a list.
differences = []
for i in range(10):
    # Repeat steps 2 to 5
    random_number_list = [random.randint(1, 1000) for _ in range(1000)]
    print(random_number_list)
    list_with_divisible_by_5 = []
    for number in random_number_list:
        if number % 5 == 0:
            list_with_divisible_by_5.append(number)

    length_of_random_list = len(random_number_list)
    length_of_5_divisible_list = len(list_with_divisible_by_5)
    difference = length_of_random_list - length_of_5_divisible_list

    # Add the difference to the list
    differences.append(difference)

# 7. Then, calculate the arithmetic mean (common average) for the differences
    ↳ in the lengths that you have.
mean_difference = sum(differences) / len(differences)
print(mean_difference)

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