

**ANL252**

**Python for Data Analytics**

**Tutor-Marked Assignment (TMA- T03)**

**July 2023 Presentation**

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**Answer Q1(a)**

The students may have done the work discussion in a group and then each member of the group using the same idea for their assignment submission. Thus, plagiarism coding happens. Besides that, coding is a new core subject that just become more popular recently in post-covid time. A lot of students especially not from information technology (IT) engineering are not familiar with it. Therefore, they may seek help from these IT engineering school mates and getting other people’s ideas and paste in their own assignment without quote the proper cites and references. These ideas given from these IT engineering students maybe also submitted to school before as their previous assignment. In this case, plagiarism will be occurring. Therefore, we must put our own effort on each assignment. Self-trying to answer each question by our own to avoiding plagiarism. Besides that, we can also try our best to build up self-awareness of avoiding from plagiarism. Studying and follow the plagiarism guideline provided by SUSS. Checking and re-submit the assignment before due date to confirm no plagiarism occurs. Listing proper and accurate cited and references for each sentence and ideas from others. Lastly, well time management also a better solution to avoiding plagiarism.

**Answer Q1(b)**

A piece of Python code:

rice\_type = ["brown rice","normal rice"]

print(rice\_type)

brownrice=+1

normalrice=-1

print(f"Your score is {brownrice} or {normalrice}")

bread\_type = ["whole wheat","normal bread"]

print(bread\_type)

wholewheat=+1

normalbread=-1

print(f"Your score is {wholewheat} or {normalbread}")

fruit\_type = ["fresh fruit","dried fruit"]

print(fruit\_type)

freshfruit=+1

driedfruit=-1

print(f"Your score is {freshfruit} or {driedfruit}")

drink\_type = ['soft drink','mineral water']

print(drink\_type)

mineralwater=+1

softdrink=-1

print(f"Your score is {mineralwater} or {softdrink}")

sugar\_level = ['normal','less']

print(sugar\_level)

less=+1

normal=-1

print(f"Your score is {less} or {normal}")

healthy\_level = ['low','high']

print(healthy\_level)

high=+3

low=-2

print(f"Your score is {high} or {low}")

The piece of code is to measure the people’s healthy level from the food type they are choosing. Nowadays, people are more concern for their health level and our government also encourage people to consume more healthy food to maintain our health for a better future life. In order for us to maintain healthy body, daily food choice is one of the better ways for it. For example, rice type content brown rice and normal rice. Brown rice is more healthy than normal rice as the sugar level of brown rice is much lower than normal rice. Therefore, if a man selected brown rice which he will be score 1 mark for his health level. In contrast, if he selected normal rice then he will lose 1 mark for his health level. Another example, if a lady who choice mineral water instead of soft drink, then she will score for 1 mark for her health level. There is total five types of food and drink to select. If total score is 3 marks and above, means that the health level of the person is consider “High” otherwise it will be in “low” level of their health level if the score is lower or equal -2 marks.

**Answer Q1(c)**

Re-write of Python code in Q1(b):

questions = ("Which rice type is your favorite?:",

"Which bread type is your favorite?:",

"Which fruit type is your favorite?:",

"Which drink type is your favorite?:",

"Which suger level is your favorite?:")

options = (("A. brownrice","B. normalrice"),

("A. wholewheat","B. normalbread"),

("A. freshfruit","B. driedfruit"),

("A. mineralwater","B. softdrink"),

("A. less","B. normal"))

answer = ("A","A","A","A","A")

guesses = []

score = 0

question\_num = 0

for question in questions:

print("----------------------------")

print(question)

for option in options[question\_num]:

print(option)

guess = input("Enter(A, B):")

guesses.append(guess)

if guess == answer[question\_num]:

score += 1

print("HEALTHY")

else:

print("UNHEALTHY")

print(f"{answer[question\_num]} is the healthy answer")

question\_num +=1

After re-write the coding in Python, it become more completeness and useful for the users. Firstly, it will show the users for the questions were created follow by the option answer provided such as multiple-choice answers. The user can key in their multiple-choice answer and obtain the result immediately after submitted their answer. For my cases, if the user has selected the unhealthy answer, the system will show that the other option answer will be the healthy answer. It will remind and alert the user one more time for the healthiest food that they need to choose in order to maintain healthy body in their life. Besides that, the coding showing clear and simple template to the users and easy for them to use the system. Lastly, the result will show to the users that whether or not they are meet for their healthcare concern.

**Answer Q2**

print(f'All products, products brand, price from min to max we have')

products\_brand = ['Apple', 'HP','HuaWei','Dell']

products = ['laptop','mouse','webcam','keyboard','speaker']

prices\_min = [888, 69, 159, 228, 139]

prices\_max = [2000, 298, 399, 488, 999]

print(products\_brand)

print(products)

print(prices\_min)

print(prices\_max)

questions = ("Which product brand is your favorite?:",

"What product you looking for?:",

"What is your budget?:")

options = (('Apple', 'HP','HuaWei','Dell'),

('laptop','mouse','webcam','keyboard','speaker'),

('2000, 298, 399, 488, 999'))

answer = (('Apple', 'HP','HuaWei','Dell'), ('laptop','mouse','webcam','keyboard','speaker'),

('2000, 298, 399, 488, 999'))

question\_num = 0

for question in questions:

print("----------------------------")

print(question)

for option in options[question\_num]:

print(option)

question\_num +=1

The code in Appendix 1 only shows the list of products, budgeted price from users and asking the user whether or not to continue after key in the budget price. The completeness was insufficient. Products brand, prices, and products details were missing. The standard coding must be adopted to the Python. The standard of coding is a guideline and foundation for reliability of coding. Repeating review of the coding to ensure that the quality of coding and reducing the mistake to increase the confident of users. Keep the coding updating and fulfil the expectation of users. Coding should provide easy access to the users and attract more users.

References: -

For answer Q1(c) and answer Q2

Youtube: Bro Code, published on 23 Nov 2022 - Create a QUIZ GAME with Python

<https://www.google.com/search?q=how+to+create+question+and+answer+in+python+code&oq=how+to+create+question+and+answer+in+python+&aqs=chrome.1.69i57j33i160l4.23911j0j15&sourceid=chrome&ie=UTF-8#fpstate=ive&vld=cid:3a2c48f4,vid:zehwgTB0vV8,st:0>