**NICF - Python Programming Intermediate Level Course**

**Written Assessment (Case Study)**

**A: Trainee Information:**

Trainee Name (as Per NRIC): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Tresha P Desai\_\_\_\_\_\_\_\_\_

NRIC: \_\_\_\_S9323516I\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_24/02/2021\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B: Assessment Instruction**

This is a Written Assessment (Case Study)

Duration: 80 mins

1. The assessor will pass the case study in hardcopy to you.

2. You need to code a Python program in a new Google Colab project.

3. This is an open book exam that must be completed individually.

Submission Procedure:

1. At the Google Colab, Goto File -> Download as .ipynb

2. Rename your file as this format CRS-Q-0039897-ICT\_JohnTan\_XXXX567A\_

3. Email the Jupyter file to the assessor or upload to Google Classroom -> View Assignment

**C. Case Study:**

NEA has engaged you to create a Python code to collect health data and enter to database.

1. Prompt user for name, weight, height

2. Compute the BMI

3. Create a Users DB and key the name, weight, height and BMI to the DB

BMI = (Weight in kilograms) divided by (Height in metres squared)

The structure of your code should look like this:

# Part 1

import sqlite3

db = sqlite3.connect('users.db')

try:

db.execute('create table users(name text,height float, weight float,bmi float)')

except:

pass

# Part 2

class Register:

def \_\_init\_\_(self,name,height,weight):

....

def keyDB(self):

....

def showDB(self):

....

# Part 3

try:

name = input('Enter name: ')

....

except:

print("you key the wrong info")

else:

register=Register(name,height,weight)

register.keyDB()

register.showDB()

finally:

print("thank you for your registration")

**D: Assessor Grading**

Grade: C / NYC

Assessor Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Assessor NRIC: \_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Please consolidate all the jupyter files and send to enquiry@tertiaryinfotech.com