

**Projects**

**Week 3**

Cholatrek Institute

# DATA SCIENCE

**Name: *{Ajetunmobi daniel}***

**1. Instructions and guidelines (Read carefully)**

## Instructions

1. Insert your name and surname in the space provided above, as well as in the **file name.** Save the file as: **First name Surname Assignment for Module 1** – **e.g. Jane Doe Assignment for Module 1**

**NB:** *Please ensure that you use the name that appears in your student profile on the cholatrek institute portal.*

1. Write all your answers in this document. There is an instruction that says, “Start writing here” under each question. Please type your answer there.
2. Submit your assignment in **Google Docs Only**. No other file types will be accepted.
3. Do **not delete the plagiarism declaration** or the **assignment instructions and guidelines**. They must remain in your assignment when you submit.

**PLEASE NOTE: Plagiarism cases will be investigated in line with the Terms and Conditions for Students.**

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| **IMPORTANT NOTICE: Please ensure that you have checked your course** | |
| **calendar for the due date for this assignment.** |  |

## Guidelines

1. The Assignment is a single question that requires a detailed and explanatory answer. Ensure to do justice to the question in relation to all that you have learnt in the class.
2. Answer all questions in your own words. Do not copy any text from the notes, readings, or other sources. **The assignment must be your own work only.**

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| **Plagiarism declaration:** |
| 1. **I know that plagiarism is wrong. Plagiarism is to use another’s work and pretend that it is one’s own.** 2. **This assignment is my own work.** 3. **I have not allowed, and will not allow, anyone to copy my work with the intention of passing it off as his or her own work.** 4. **I acknowledge that copying someone else’s assignment (or part of it) is wrong and declare that my assignments are my own work.** |

**Project Exercise:**

### SECTION 1

1. What error did you get, Why do these expressions cause an error? How can you fix it?
   1. 'I have eaten ' + 99 + ' burritos.' (ii) “7” + is Christiano Ronaldo’s number
2. State which of the following are operators, and which are values?
   1. \* (ii) 'hello' (iii) -88.8 (iv) 5 (v) %
3. State valid or invalid for each of the following variable names
   1. Cholatrek.io (ii) cholatrek\_io (iii) -cholatrek (iv) \_cholatrek(v) 100cholaterk (vi) CHOLATREK
4. How can i convert the following to numbers?
   1. “99” (ii) “65.4567282” answer (i)int(‘99’) (ii) int(’65.4567282’)
5. What is the difference between the following expressions?
   1. 13 + 7 (ii) “13” + “7” answer (i)output=20 (ii)output=137
6. Use all the comparison operators to compare variables of your choice containing strings
7. With any example of your choice, collect data from a user and output data back to the user
8. answer to question 7

N=input(‘enter ur age:’) print(N)

## Assignment Answer

*{1(I) type error (ii) syntax error )*

*2(i) operators (ii)value (iii)value (iv) operators*

*3(i) valid (ii)invalid (iii)invalid (iv)valid (v)valid (vi)valid}*

### SECTION 2

For this section, you will be submitting your .py code files.

1. Write a Python program to remove the nth index character from a nonempty string.

***Example:***

String = ‘Python’

Index\_to\_remove = 3

Output = ‘Pyton’

1. Write a Python program that accepts a comma separated sequence of words as input and prints the unique words in sorted form (alphanumerically)

Sample Words : red, white, black, red, green, black

Expected Result : black, green, red, white,red

1. Write a Python program to print the following floating numbers upto 2 decimal places.

(i) 3.1415 (ii) 56.23879

1. Write a Python program to count occurrences of a substring in a string.

sample\_String = ‘The quick black fox came to the black house at the black city’

Count\_of\_black = 3

1. Write a Python program to reverse a string

Sample string = ‘Data Science’

Expected output = ‘ecneicS ataD’

1. Write a Python program to swap comma and dot in a string.

Sample string: "32.054,23"

Expected Output: "32,054.23"