National Vocational & Technical Training Commission
Institute of Electrical, Electronics and Computer Engineering
University of the Punjab

Artificial Intelligence C1 & C2
Assignment 2 : 25/05/2023
Module 1 : Week 1

Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.

Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found.

Task 1: Rewrite this line so it's valid:

```
if species = "cat":
```

Task 2: Code the first line of an **if** statement that tests whether **x** has the same value as **y**

Task 3: On line 1, test whether **a** has the same value as **b**. On line 2, write that **c** equals **d**. Don't forget to indent the second line.

Task 4: If **total** has the value of 100, then **tax** has the value of 2. Code both lines. Don't forget to indent the second line.

Task 5: If **first_name** is "Sherlock", then **last_name** is equal to "Holmes" and **pal** is equal to "Watson". Code all three lines.

Task 6: Ask user to Enter “yes” or “no”. If user entered "yes" tell Python to print "congrats", if “no”, tell python to print “better luck next time”.

Task 7: Code the first line of an **if** statement testing whether the variable **total** is less than 100.

Task 8: Write a program:

1. Ask user to enter a value in range of 1 -> 1000.
2. if the value is greater then 500, then write “greater than 500” else write “smaller than 500”.

Task 9: Code **if** statement that tests whether the **Difference** of **a** and **b** (take input from user) is greater than or equal to **c**= - 7.

Task 10: Write an **if** statement that tests whether a variable is smaller than 99. If the test passes, assign 99 to the variable. Make up the variable name. Remember to indent the second line two spaces.

Task 11: Write an **if** statement that tests whether a first variable is greater than a second variable. (Take both values from the user)

If the test passes, make the second variable equal to the first variable. Make up the variable names.