Name: Mohsin Zeb

Intern ID: TN/IN02/PY/019

Email ID: mohsinzebsm@gmail.com

**Domain: Python Development** 

Task no: Week #1

Question 1. Fix badly-indented code.

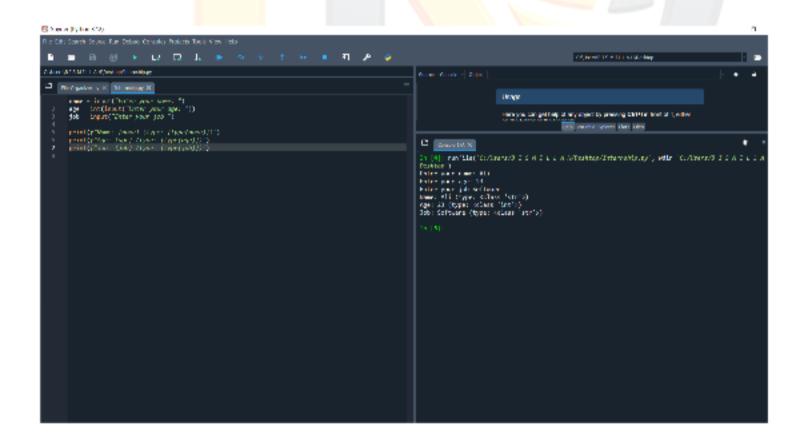
2. Add comments explaining each step

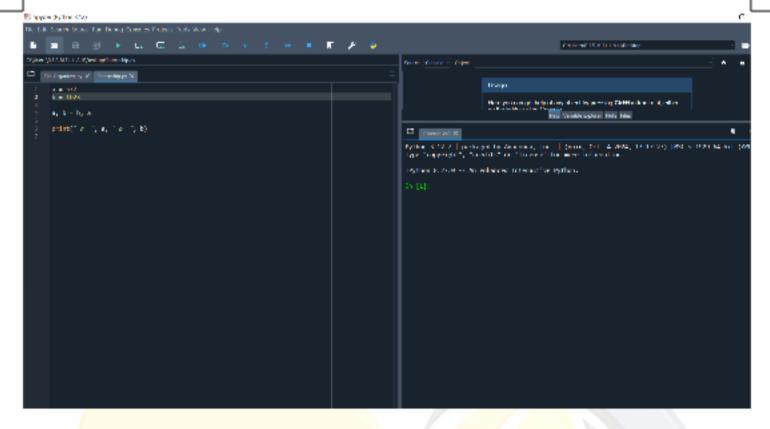
```
April delication of the control of t
```

- 1. Python uses indentation to define blocks of code.
- 2. Improper indentation causes syntax errors
- 3. Comments explain code to others and your future self.
- 4. Use # for single-line comments.

### Question: 1. Collect user profile & print typed summary.

2. Swap two variables without temp var.



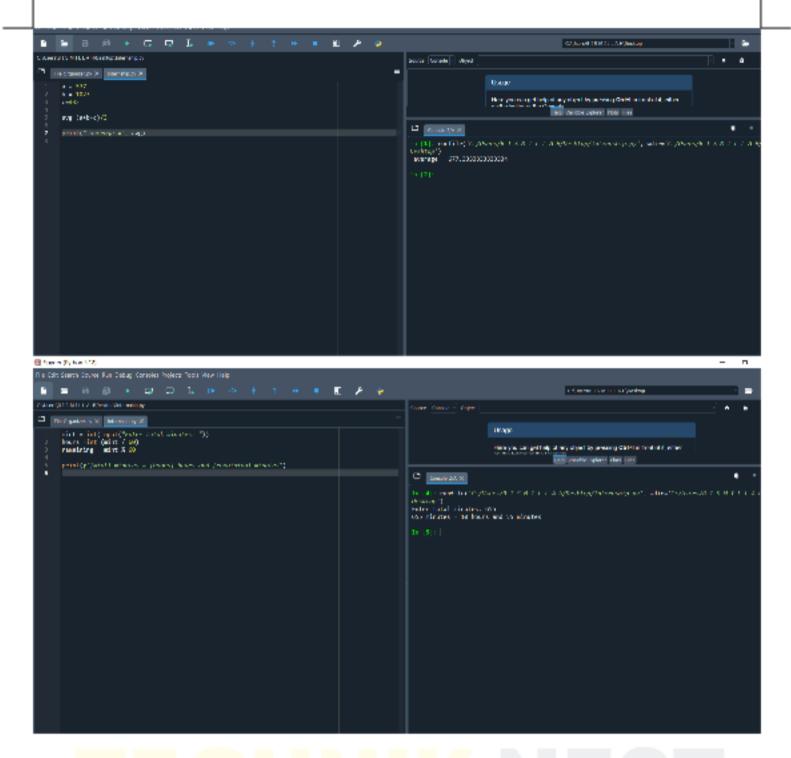


- 1. Variables store different types of data (int, float, str).
- 2. Use input() to get user input.
- 3. Swapping doesn't need a temp variable.
- 4. This method is clean and efficient.

## TECHNIK NEST

Question: 1. Read three numbers; output avg.

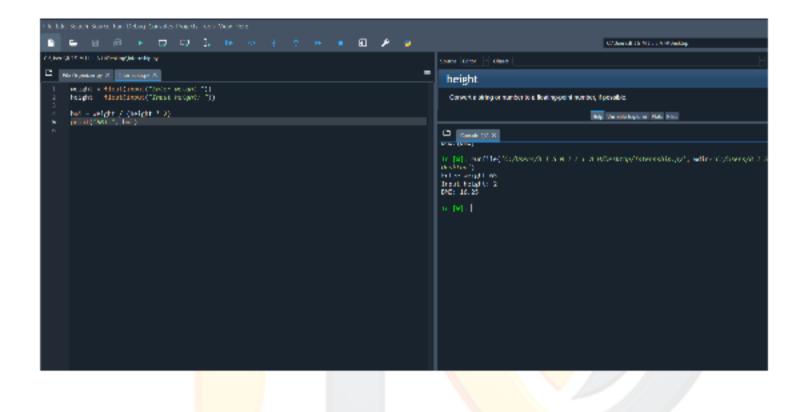
2. Convert minutes to hours + minutes.

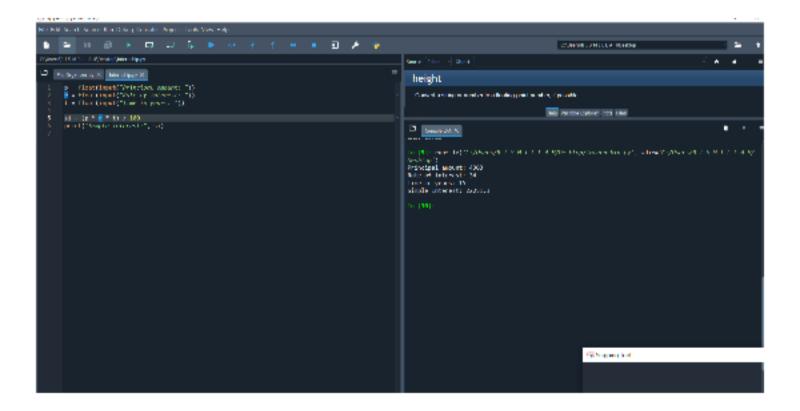


- 1. Always cast numeric input using float() or int().
- 2. Perform arithmetic operations using operators.
- 3. Useful for time-based calculations.

## Question: 1. BMI calc from user input.

## 2. Simple interest calc



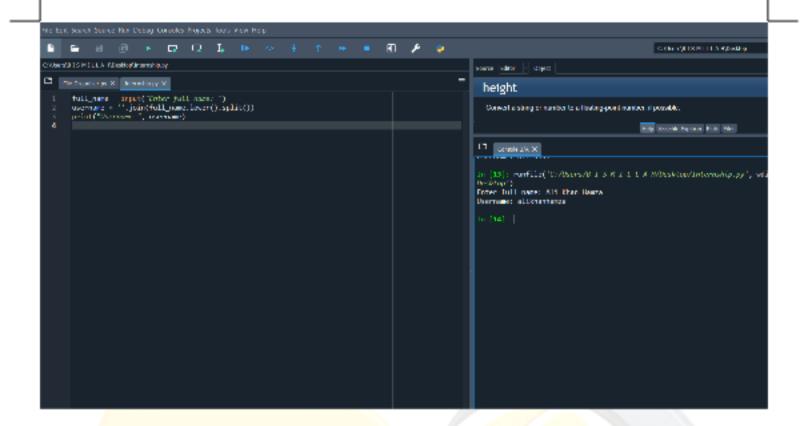


- 1. BMI calculator uses height and weight to measure body reference
- 2. BMI = weight / (height²).
- 3. Order of operations matters.
- 4. Financial formulas can be used

Question: 1. Username builder from full name.

Code and OUTPUT:

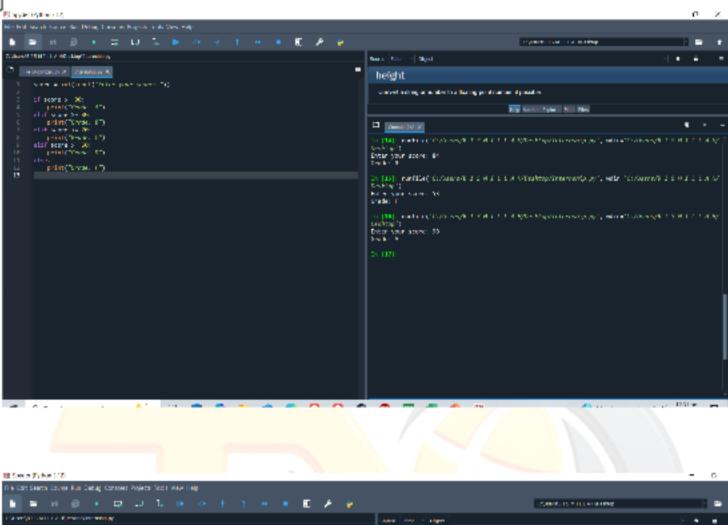
TECHNIK NEST

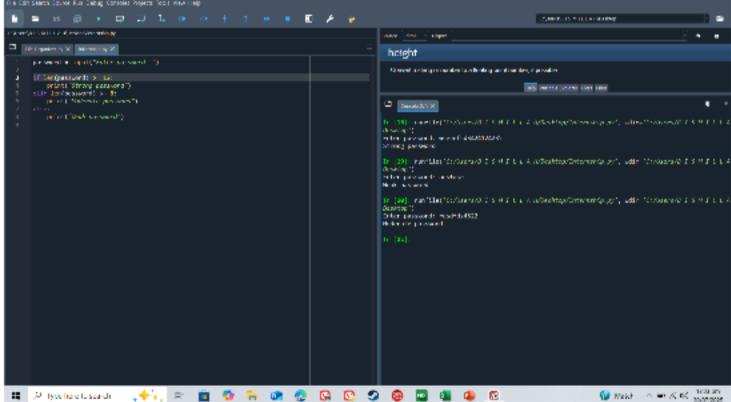


- .lower() converts to lowercase.
- .split() breaks string into words.
- ".join() joins without spaces.

Question: 1. Grade calculator.

2. Password strength classifier



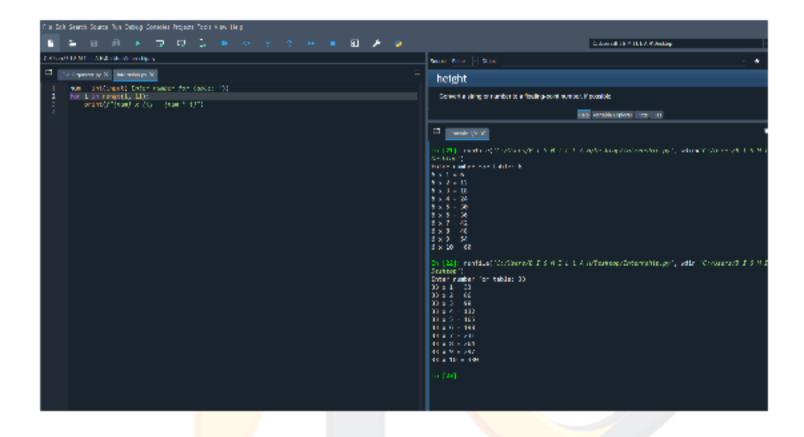


- if-elif-else checks multiple conditions.
- Order matters: first true condition runs.
- Strong passwords need length

4. Logical operators (and, or) combine conditions

## **Question: Multiplication Table**

Code and OUTPUT:



## Learning:

- 1. range(start, end) generates numbers.
- 2. Loops are used for repetitive tasks

#### Question: CLI Converter:

```
Experimental and grown the problem of the problem o
```

- 1. Arithmetic operations can convert between units
- 2. Loops keep on repeating until certain conditions met
- 3. We can implement any calculator easily with Conditional statements

## TECHNIK NEST