

Variables Exercises

Exercise 1: Calculate area of shapes for triangle and rectangle Triangle area = (Height * Triangle)/2 Rectangle area = Rectangle Height * Rectangle width	
Screen	Code
<pre>Enter the triangle height: 2 Enter the triangle base: 3 Enter the rectangle height: 4 Enter the rectangle width: 3 Triangle area is 3.0 Rectangle area is 12.0 ❏</pre>	

Exercise 2: Write python program to read two items prices and quantities, then calculate the vat value, total cost and display the total without vat, the vat value, and the total with the vat value.	
Screen	Code
<pre>Enter the price of first item: 50 Enter the quantity of first item: 3 Enter the price of Second item: 25 Enter the quantity of Second item: 3 Total Before VAT price 225.0 dhs Vat Value 11.25 dhs Total After Vat price 236.25 dhs ❏</pre>	

Exercise 3:

Write python program to read the user name, the number of pizzas the user want, the vat value. Calculate the vat and the total cost including the vat value. Consider the pizza has a fixed price of 25 AED.

Screen	Code
<pre>Please enter your name: Ossama Hello Ossama How many pittza you want?: 3 Enter tax rate: 5 Pizza Number: 3 Price for each: 25 Price before tax: 75 Tax: 3.75 Price After tax: 78.75 ❏</pre>	

Exercise 4:

Write python program to read the user name, age, then display Hello message followed by the user name and display the age after 5 years.

Screen	Code
<pre>Please enter your name: Ossama Please enter your age: 39 Hello Ossama Your age is 39 Your age after 5 years is 44 ❏</pre>	

Exercise 5:

Write a python program that read weight (kg) and height (m) of a person, calculate and display his BMI [Body mass index].

$$BMI = \frac{kg}{m^2}$$

Screen	Code
<pre>Please eneter the weight Kg: 75 Please eneter the height in meters: 171 Your body mass index is: 0.0026 ▣</pre>	