

Write an Algorithm in Pseudocode for the below Exercises

1. Add 5 numbers and display the Total
2. Tell someone how old they will be in 20 years
3. Compute the area of a circle
4. Compute the new price for a product that's on sale for 10% off
5. Draw a 5 inch square on the screen
6. Add the prices of an order of fries, a burger and a drink. Calculate the tax and tell the customer their total.
 - a. How would you generalize your algorithm to add up the prices of any number of items and calculate tax and a total (assume that ALL items are taxable)
7. Search for a red marble in a box of red, green and yellow marbles
8. Select the heaviest of 5 melons sitting in a fruit bin
9. Check someone's email every 5 minutes. Signal them if new mail has arrived
10. Monitor the temperature in a room every 10 minutes. Turn on the A/C if the temperature is 5 degrees above the Thermostat setting
11. Monitor the temperature in a room every 10 minutes. Turn on the heat if the temperature is 10 degrees above the Thermostat setting
12. Do either (10) or (11) depending on the temperature in the room
13. Mark a 10 question test and compute a grade on a 10-point scale
 - a. Convert the score to a letter grade based on the following:
 - i. 90 or 100 = A
 - ii. 80 = B
 - iii. 70 = C
 - iv. Anything else = F
14. Subtract 2 numbers. If the result is positive, say "Positive"; if the result is negative, say "Negative". If the result is 0, say "Zero"