**Module3 Critical Thinking Git Repo**

|  |
| --- |
| <https://github.com/sankar228/csu-ms-aiml/tree/ad60e50799b6db399ce3c6ec33ee270106885904/CSC500/module3> |

**Part1 source code**

**Problem statement:** Write a program that calculates the total amount of a meal purchased at a restaurant. The program should ask the user to enter the charge for the food and then calculate the amounts with an 18 percent tip and 7 percent sales tax. Display each of these amounts and the total price.

**Code:**

|  |
| --- |
| def main():      print("Food Bill details")      foodprice = round(float(input("Please enter the food price: ")), 2)        if (foodprice == None or foodprice <= 0):          print("Invalid food price")          exit(1)        tip\_amount =  round(foodprice \* (18/100), 2)      sales\_tax = round(foodprice \* (7/100), 2)        total\_price = round(foodprice + tip\_amount + sales\_tax, 2)        print(f"Food price: ${foodprice}")      print(f"Tip: ${tip\_amount}")      print(f"Sales Tax: ${sales\_tax}")      print(f"Total price: ${total\_price}")    if \_\_name\_\_ == '\_\_main\_\_':      main() |

**Part1 Code execution:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Part2 Source code:**

**Problem statement:** Many people keep time using a 24-hour clock (11 is 11am and 23 is 11pm, 0 is midnight). If it is currently 13 and you set your alarm to go off in 50 hours, it will be 15 (3pm). Write a Python program to solve the general version of the above problem. Ask the user for the time now (in hours) and then ask for the number of hours to wait for the alarm. Your program should output what the time will be on a 24-hour clock when the alarm goes off.

**Code:**

|  |
| --- |
| def main():      now = int(input("What is the User time in hours now: "))      alarm\_hours = int(input("please enter the alarm wait hours: "))        if(now >23 or now < 0):          print("invalid time hours, must be a number between 0 - 23")          exit(1)        print(f"Current Time: {now:02}")      alarm\_time = now + alarm\_hours        if (alarm\_time > 23):          alarm\_time = alarm\_time % 24        print(f"Alarm Time: {alarm\_time:02}")      if \_\_name\_\_ == '\_\_main\_\_':      main() |

**Part2 Code execution:**

**A screenshot of a computer program

AI-generated content may be incorrect.**