

Assignment (BCAC493)

(Basics, Decision Control Statements, loop)

1. Write a program to calculate salary of an employee given his basic pay (to be entered by the user), HRA=10 percent of basic pay, TA=5 percent of basic pay. Define HRA and TA as constants and use then to calculate the salary of the employee.
2. Write a program to prepare a grocery bill. For that enter the name if the items purchased, quantity in which it is purchased, and its price per unit. Then display the bill in the following format.

*****BILL*****

Item Name	Item Quantity	Item Price
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Total Amount to be paid

3. Write a program to calculate tax given the following conditions:

If income is less than 150000 then no tax

If taxable income is 150001 – 300000 then charge 10% tax

If taxable income is 300001 – 500000 then charge 20% tax

If taxable income is above 500001 then charge 30% tax

Sample Output:

Enter the income: 2000000

TAX = 404999.7

4. Write a program that prompt the user to enter a string. The program calculates and display the length of the string until the user enter "QUIT".
5. Write a program that prompt the user to enter five words. If the length of any word is less than 6 characters, then it ask the user to enter it again. However if the word is of 6 character or more characters, then it display it on the screen.
6. Write a program to calculate electricity bill based on the following information.

Consumption Unit	Rate of Charges
0-150	3 per unit
151-350	100 plus 3.75 per unit exceeding 150 units
351-450	250 plus 4 per unit exceeding 350 units
451-600	300 plus 4.25 per unit exceeding 450 units
Above 600	400 plus 5 per unit exceeding 600 unit

7. Write a program to calculate parking charges of a vehicle. Enter the type of vehicle as a character (Like c for car, b for bus etc.) and hours, then calculate charges as given below:

Truck/Bus – 20 per hour.

Car- 10 per hour.

8. A video library rents new videos for 75 a day, and old movies for 50 a day. Write a program to calculate the total charges for a customer's video rentals. The program should prompt the user for the number of each type of video and output the total cost.