Python
Lab1

Half Adder

Note: ***Follow the instructions to reach the best clean code.***

1-Write program demand from user Enter integer Number and convert it to (Binary bit) [program still run don't stop after convert] .

2-Write a program to enter the user for hours and rate per hour to compute gross pay.

3-Write a program to handle operations for addition and multiplication on the pair (3 , 5) in three cases: integer, float, and string. Display the result and its type. Note: For string multiplication, only consider one string and one integer.

4-Write a program to calculate your grade from the given score. Prompt the user to enter his score.

(100 : 85 = A || 85 :75 = B || 75 : 65 = C || 65 : 60 = D || less 60 = F)

5-Write your pay computation to give the employee 1.5 times the hourly rate for hours worked above 40 hours.

6-Write program to Classify Employee by "nestedif" to

- Manger (GPA > 3.8 && Master && MBA && Experience > +15).
- Staff_senior (GPA > 3.6 && Master && 15 >= Experience > 10).
- Senior(GPA > 3.6 && 10>= Experience >5).
- TeamleaderSenior(GPA > 3.4 && 10>= Experience > 3) .
- Standard (GPA > 3 && Experience > 1)
- junior (GPA > 2.5 && Experience < 1))

7-Write Program Demand From user Number is greater than 1.5 and less than 150 and if enter number above 1.5 or excess 150 dispaly error and demand from user enter another number

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8-Finding the Average in a Loop [10,20,30,40,50,60] and display average and average approximate result .

(average = Sum / Count)

9-Filtering in a Loop [9, 41, 12, 3, 74, 15] : Value > 20 print any number

10-Finding the Smallest Value [9, 41, 12, 3, 74, 15]

11-Write a program that take a sentence from a user,then print each word separately.

12-Using String = “0123456789” Write a program to print the following

(“02468” ,“13579” , “0369” , “9876543210”)

وَمَا أُوتِيتُم مِّنَ الْعِلْمِ إِلَّا قَلِيلًا