



Python Assignment -3 (Branching)

1. Write a program to check if the given number is positive or negative.
2. Write a program to input any alphabet and check whether it is vowel or consonant.
3. Write a program to input angles of a triangle and check whether triangle is valid or not.
4. Write a program to input all sides of a triangle and check whether triangle is valid or not.
5. Write a program to check whether the triangle is equilateral, isosceles or scalene triangle.
6. Write a program to calculate profit or loss.
7. Write a program to check if user has entered correct userid and password.
8. Write a program to prompt user to enter userid and password. After verifying userid and password display a 4 digit random number and ask user to enter the same. If user enters the same number then show him success message otherwise failed. (Something like captcha)
9. Input 5 subject marks from user and display grade(eg.First class,Second class ..)
10. Write a program to check if person is eligible to marry or not (male age ≥ 21 and female age ≥ 18)
11. Accept age of five people and also per person ticket amount and then calculate total amount to ticket to travel for all of them based on following condition :
 - a. Children below 12 = 30% discount
 - b. Senior citizen (above 59) = 50% discount
 - c. Others need to pay full.
12. Write a program to check if given 3 digit number is a palindrome or not.
13. Write a program to input electricity unit charges and calculate total electricity bill according to the given condition:
 - For first 50 units Rs. 0.50/unit
 - For next 100 units Rs. 0.75/unit
 - For next 100 units Rs. 1.20/unit
 - For unit above 250 Rs. 1.50/unit
 - An additional surcharge of 20% is added to the bill

