

Python Assignment - 5

Conditional Statements

1. Take two integer values from the user and print greatest among them.
2. Write a program that reads an integer from the user. Then your program should display a message indicating whether the integer is even or odd.
3. Create a program that reads a letter of the alphabet from the user. If the user enters a, e, i, o or u then your program should display a message indicating that the entered letter is a vowel. If the user enters y then your program should display a message indicating that sometimes y is a vowel, and sometimes y is a consonant. Otherwise your program should display a message indicating that the letter is a consonant.
4. A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene. Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

5. Write a program that determines the name of a shape from its number of sides. Read the number of sides from the user and then report the appropriate name as part of a meaningful message. Your program should support shapes with anywhere from 3 up to (and including) 10 sides. If a number of sides outside of this range is entered then your program should display an appropriate error message.
6. A shop will give a discount of 10% if the cost of the purchased quantity is more than 1000. Ask the user for quantity, suppose, one unit will cost 100. Judge and print total cost for user.
7. Take input of age of 3 people by user and determine oldest and youngest among them.
8. A company decided to give a bonus of 5% to an employee if his/her year of service is more than 5 years. Ask user for their salary and year of service and print the net bonus amount.
9. Write a program to check if a year is leap year or not. If a year is divisible by 4 then it is leap year but if the year is a century year like 2000, 1900, 2100 then it must be divisible by 400.
10. Accept d1 and d2 as input. First, check to see that they are in the proper range for dice. If not, print a message. Otherwise, determine the outcome if this is the come out roll. If the sum is 7 or 11, print the winner. If the sum is 2, 3 or 12, print loser. Otherwise print the point.

11. Write a python program to display the number of days in a month name from the given list of months or month number entered by user.

12. Write a Python program to get next day of a given date.