1. write a program to divide two integer without using any operator?

SOL:

dividend = int(input("Enter the dividend: "))

divisor = int(input("Enter the divisor: "))

if divisor == 0:

    print("Error: Cannot divide by zero.")

else:

    quotient = 0

    is\_negative = (dividend < 0) != (divisor < 0)

    dividend = abs(dividend)

    divisor = abs(divisor)

    while dividend >= divisor:

        dividend -= divisor

        quotient += 1

    if is\_negative:

        quotient = -quotient

    print(f"The result of the division is {quotient}.")

1. Write a program to create triangle using esoteric?

SOL:

def create\_triangle(rows):

    for i in range(1, rows + 1):

        print(" " \* (rows - i) + "\*" \* (2 \* i - 1))

rows=5

create\_triangle(rows)

3-write a program to check if two words are anagram or not?

SOL:

word1 = input("Enter the first word: ")

word2 = input("Enter the second word: ")

if len(word1) != len(word2):

    print("The words are not anagrams.")

else:

    if sorted(word1) == sorted(word2):

        print("The words are anagrams.")

    else:

        print("The words are not anagrams.")

4-Create a simple rock paper scissor game in python?

SOL:

import random

choices = ['rock', 'paper', 'scissors']

while True:

    print("Enter your choice: rock, paper, or scissors. To exit the game, type 'exit'")

    player\_choice = input().lower()

    if player\_choice == 'exit':

        break

    if player\_choice not in choices:

        print("Invalid choice. Please try again.")

        continue

    computer\_choice = random.choice(choices)

    print(f"Computer chose {computer\_choice}")

    if player\_choice == computer\_choice:

        print("It's a tie!")

    elif (player\_choice == 'rock' and computer\_choice == 'scissors') or (player\_choice == 'paper' and computer\_choice == 'rock') or (player\_choice == 'scissors' and computer\_choice == 'paper'):

        print("You win!")

    else:

        print("Computer wins!")

1. Write a program in python to count vowel and consonant in a word.

SOL:

word = input("Enter a word: ")

vowels = 0

consonants = 0

for char in word:

    if char.isalpha():

        if char in 'aeiou':

            vowels += 1

        else:

            consonants += 1

print(f"The word '{word}' has {vowels} vowels and {consonants} consonants.")