

Scenario based Answers set2

Identifying Transaction Type

1. Read the input number,

If the amount is greater than zero, print "positive", otherwise

Else if the number is less than 0, print "Negative",

Else print Zero' No Transaction'

2. Summing the Digits of a number,

Read the input number,

Convert the number into individual digits

Initialize a sum variable to 0

For each digit in the number, add it to the sum variable

Print the sum of the digits

3. Reversing a transaction ID

Read the input number,

Convert the number into a string,

Reverse the string,

Convert it back to a number,

Print the reversed number.

4. Checking if a Number is Prime

Read the input number,

If the number is less than 2, print 'Not prime',

Else it print prime.

5. Finding the factorial using recursion,

Read the input number,

Count the number of digits

Initialize the sum variable to 0

If n is less than zero raise Value Error,

Elif n is equal to zero or 1, return 1

Else, return the number multiplied by the factorial of (number-1)

Print the result

6. Read the input number,

Count the number of digits, initialize the sum variable to zero for each digit in the number.

Return number,

Raise the digit to the power of the total number of digit and add result to the sum variable.

If the sum is equal to the original number, print "Armstrong number",

Else, print "Not Armstrong number"

7. Swapping

Read the string as input,

String has 0 or 1, return as it is ,

Longer string, slicing to swap,

First char last , last char first, middle as it is ,

Return result

8. Converting decimal to binary

Read input decimal number,

Initialize an empty string for binary representation,

While the number is greater than zero divide the number by 2

And store the remainder, add the remainder to the binary string

Update the number by dividing it by 2

Reverse the binary string

Print the binary representation

9. Finding the longest word in a sentence

Read input

Split the sentence into word using split() method,

Max() function with the len, find the word with the maximum length,

Print longest word

10. Checking if two strings are Anagram,

Read two input strings

Remove spaces and convert both strings to lower case lower() to make the comparison case insensitive.

Sort the characters of both string sorted() and compare

If the sorted characters are the same, the strings are anagrams, and function, return True, else false

