1. **`Scenario:`** You are developing a banking application that categorizes transactions based on the amount entered.
   Write logic to determine whether the amount is positive, negative, or zero.

   Step 1: Get the number input
   Step 2: If the number is greater than 0(deposit)
   Step 3: else the number is less than 0 (withdrawal)
   Step 4: else print no transaction

2. **Scenario:** You are developing a banking application that categorizes transactions based on the amount entered.
   Write logic to determine whether the amount is positive, negative, or zero.

   Step1: Read the input number.

   Step 2: Convert the number into digits

   Step 3: Initialize sum variable to 0.

   Step 4: For each digit in the number, add it to the sum variable.

   Step 5: Print the sum of the digits.

3. Scenario: Reversing a Transaction ID

   Step 1: Read the input number

   Step 2: convert the number into string

   Step 3: reverse the string

   Step 4: convert the string into number

   Step 5: Print the reversed number

4. Checking if a Number is Prime

Step 1: Read the input number

Step 2: if the number is less than 2, the number is not prime

Step 3: Loop from 2 to square root of the numbers

Step 4: if the number is divisible of any of the values, its not prime

Step 5: else the return number is prime

5. Finding the Factorial Using Recursion

Step 1: Read the input number

Step 2: if the number is 0 or 1, return 1

Step 3: else return the multiplied by factorial of previous number

Step 4: print the factorial number

6. Checking if a Number is an Armstrong Number

Step 1: Read the input number

Step 2: count the no of digits

Step 3: Initialize the sum as 0

Step 4: for each digit in the number:

Raise the digit to the power of the total number of digits.

Add the result to the sum variable

Step 5: if the sum is equal to the original no, print it is armstrong

Step 6: Else the number is not armstrong

7. Swapping First and Last Characters of a String

Step 1: Get the input string

Step 2: Swap the first & last character, leave other characters as it is

Step 3: print the new string with swapped characters

8. Converting Decimal to Binary

Step 1: Get the input decimal number

Step 2: Initialize empty string for binary representation

Step 3: While the number is greater than 0

Divide the number by 2 and store the remainder

Add the remainder to binary string

Update the number by dividing it to 2

Step 4: Reverse the binary string

Step 5: Print the binary representation

9. Finding the Longest Word in a Sentence

Step 1: Read the input sentence

Step 2: split the sentence into individual words

Step 3: Initialize a word to longest word

Step 4: Iterate through loop each word

Step 5: If the current word is longest than stored word, update the longest word

Step 6: print the new longest word

10. Checking if Two Strings are Anagrams

Step 1: Read two input strings

Step 2: Remove spaces & convert them to lower case

Step 3: Sort the characters of both strings

Step 4: if the sorted versions of both strings are identical, print”Anagram”

Step 5: else print not a anagram