STUDENT REPORT

DETAILS

Name

DIVYA D

Roll Number

3BR23CS046

EXPERIMENT

Title

TOSS AND SCORE

Description

You are playing a game of Toss and Score in the Hillwood City Mall with your friends. The game consists of the following rules:

Toss an unbiased coin multiple times.

For each heads you get 2 points and for each tails you lose 1 point.

The game ends as soon as you get 3 heads in a row, or you toss the coin throughout the length of string S.

You have been given a string 5 consisting of letters H (for heads) and T (for tails) denoting the sequence results you get on the tass of coin N times. Your task is to find and return an integer value representing the final score you get once the game ends.

Note: The final score can be negative too.

Input Specification:

Input1: A string s. representing the sequence of results you get on the toss of coin N times.

Sample Input:

HHHTT

Output:

6

Source Code:

```
def calculate_score(s):
    score = 0
    consecutive_heads = 0

    for char in s:
        if char == 'H':
            score += 2
            consecutive_heads += 1
            # Check for three consecutive heads
            if consecutive_heads == 3:
                break
        elif char == 'T':
            score -= 1
            consecutive_heads = 0  # Reset the counter for heads

    return score

# Sample Input
s = "HHHTT"

# Calculating the final score
result = calculate_score(s)
print(result)  # Output: 6
```

RESULT

2 / 5 Test Cases Passed | 40 %