

Name: _____

Redg.No: _____

Program logic Description:

The program runs until number $n > 0$. In each iteration, it adds the rightmost digit ($n \% 10$) to sum and updates the number to $n / 10$. In the end, after the loop terminates if the sum is equal to the original number, then the program prints "a perfect number" otherwise, prints "not a perfect number".

Output:

Test case 1: Enter a large number: **12134616235835**

The unique digits present in 12134616235835 are 1, 2, 3, 4, 6, 5, 8.

The largest number possible out of these unique digits is 8654321.

Test case 2: Enter a large number: **11131116111811**

Test case 3: Enter a large number: **7**

Test case 4: Enter a large number: **11111111111**

Test case 5: Enter a large number: **1253478690**

Test case 6: Enter a large number: **000000000**

Test case 7: Enter a large number: **122222222**

Test case 8: Enter a large number: **3333333335**