Program to find whether the given number is Happy number or not

Sample Input: Enter number: 19

Sample Output: Given number is happy number

CODE:

def is\_happy\_number(number):

seen\_numbers = set()

while number != 1 and number not in seen\_numbers:

seen\_numbers.add(number)

number = sum(int(digit) \*\* 2 for digit in str(number))

return number == 1

# Example usage:

given\_number = int(input("Enter number: "))

if is\_happy\_number(given\_number):

print("Given number is Happy number.")

else:

print("Given number is not Happy number.")

OUTPUT:

Enter number: 19

Given number is Happy number.

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