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In [3]: #program to find out whether a number is an Armstrong number or not
num = int(input("Enter a number : "))           #taking user input
exp = len(str(num))                             # evaluating the length of the
original = num                                  #storing the original number for
sum = 0                                          # initialising sum
while num > 0:                                  #initialising the loop for iteration
    digit = num % 10                            #isolating the last digit
    sum += digit**exp                           #adding the last digit to the sum
    num = num // 10                             #truncating the last digit for next iteration

if(sum == original):                            # comparing the sum with the original number
    print("the number is an Armstrong Number")  #result if true
else:
    print("the number is not an Armstrong Number") #result if false
```

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Enter a number : 153
the number is an Armstrong Number
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