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Experiment-4 ARMSTRONG NUMBER

Aim:

Write a python program to check the number is Armstrong number or not and inspect for failures.

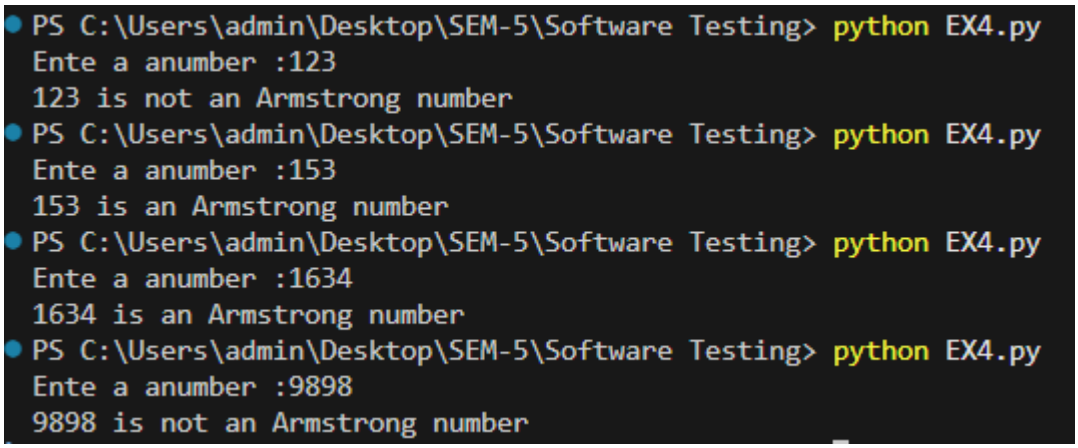
Algorithm

1. Start the program.
2. Read an integer input number.
3. Initialize the variables current_digit, sum = 0, and num = number.
4. Repeat Steps 5 to 7 until num > 0
5. current_digit = (num % 10).
6. sum = sum + (current_digit * current_digit * current_digit). 7. Stop the program.
7. num = num / 10.
8. Check if sum == number. If true, print "It is an Armstrong Number." Otherwise, print "It is not an Armstrong Number."
9. Stop the program.

Program

```
num=int(input("Ente a anumber :"))
power=len(str(num))
total=sum(int(digit)**power for digit in str(num))
if num==total:
    print(num,"is an Armstrong number")
else:
    print(num,"is not an Armstrong number")
```

Output



Result

Thus, the python program to find an Armstrong number has been executed successfully.