Experiment no -01 (E)

Aim: Write a function to check the input value is Armstrong and also write the function for Palindrome.

Theory:-

Practical Implementation:-

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Code:-
num = int(input("Enter a number: "))

sum = 0

temp = num
while temp > 0:
digit = temp % 10
sum += digit ** 3
temp //= 10

if num == sum:
print(num, "is an Armstrong number")
else:
print(num, "is not an Armstrong number")
```

```
Output:-
 File Edit Format Run Options Window Help
                                            File Edit Shell Debug Options Window Help
num = int(input("Enter a number: "))
                                                Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (
                                                AMD64)] on win32
                                                Type "help", "copyright", "credits" or "license()" for more information.
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
                                                = RESTART: C:\Users\omkar\AppData\Local\Programs\Python\Python310\Experiment no
                                                -01(E).py
                                                Enter a number: 120
                                                120 is not an Armstrong number
   temp //= 10
                                                = RESTART: C:\Users\omkar\AppData\Local\Programs\Python\Python310\Experiment no
if num == sum:
    print(num, "is an Armstrong number")
                                                Enter a number: 407
407 is an Armstrong number
   print(num, "is not an Armstrong number") >>>
Conclusion: This is program successfully run.
```