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In [4]: #First assignment
# 1.Program to check Armstrong number
num = int(input("Enter a number : "))
temp = num
result = 0
while temp>0:
    remainder = temp%10
    temp = temp//10
    result = result + remainder**3
if result==num:
    print("Armstrong number")
else:
    print("Not an Armstrong number")
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Enter a number : 153
Armstrong number
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In [6]: #2.Program to check if a number is Fibonacci number
num = int(input("Enter the number : "))
fib = [0,1]
i = 1
while(i<=num):
    i = fib[-1] + fib[-2]
    fib.append(i)
if(num in fib):
    print(num,"is a Fibonacci Number")
else :
    print(num,"is not a Fibonacci number")
```

```
Enter the number : 13
13 is a Fibonacci Number
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