

Assignment-1

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1) Python program to check Armstrong number?

```
num = int(input("Enter a number: "))
```

```
sum = 0
```

```
n = num
```

```
while n > 0:
```

```
    digit = n % 10
```

```
    sum += digit ** 3
```

```
    n // 10
```

```
if num == sum:
```

```
    print(num, "is an Armstrong number")
```

```
else:
```

```
    print(num, "is not an Armstrong number")
```

2) Python program for how to check if a given no is Fibonacci number?

```
n = int(input("How many terms to print "))
```

```
n1, n2 = 0, 1
```

```
count = 0
```

```
if n <= 0:
```

```
    print("Enter a positive integer")
```

```
elif n == 1:
```

```
    print("Series upto", n)
```

```
    print(n1)
```

```
else:
```

```
    print("Fibonacci seq: ")
```

while ("Fibonacci series: ")

while count < n:

print(n1)

$n^{\text{th}} = n_1 + n_2$

$n_1 = n_2$

$n_2 = n^{\text{th}}$

count + = 1