

Assignment - 1

1. Python Program to check Armstrong Number?

```
# Input from the user
```

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

```
sum = 0
```

```
# find the sum of the cube of each digit.
```

```
temp = num
```

```
while temp > 0:
```

```
    dig = temp % 10
```

```
    sum += dig ** 3
```

```
    temp //= 10
```

```
# displaying the result
```

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

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

```
else:
```

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

Output:

1. Enter a number : 153

153 is an Armstrong number

2. Enter a number : 120

120 is not an Armstrong number.

2. Python program for How to check if a given number is Fibonacci number?

Input from the user

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

```
c = 0
```

```
a = 1
```

```
b = 1
```

```
if num == 0 or num == 1:
```

```
    print(num, "is Fibonacci number")
```

```
else:
```

```
    while c < num:
```

```
        c = a + b
```

```
        b = a
```

```
        a = c
```

```
    if c == num
```

```
        print(num, "is Fibonacci number")
```

```
    else:
```

```
        print(num, "is not Fibonacci number")
```

Output:

1. Enter the number: 55
55 is Fibonacci number.

2. Enter the number: 56
56 is not Fibonacci number.