

Q.18) Write a python program to check Armstrong number of n digits.

Eg: $1634 = 1^4 + 6^4 + 3^4 + 4^4 = 1634$

```
def Armstrong(num):
```

```
    number_str = str(number)
    number_digits = len(number_str)
```

```
    sum_powers = sum(int(digit) ** number_digits for digit in number_str)
```

```
    return sum_powers == num
```

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

```
if Armstrong(num):
```

```
    print(f"{num} is an Armstrong number.")
```

```
else:
```

```
    print(f"{num} is not an Armstrong number.")
```