In [2]:
```
#factorial program
no = int(input("Enter the Number- "))
a = 1

for x in range(no, 0, -1):
    a *= x
print(a)
```

```
Enter the Number- 6
720
```

In [5]:
```
no = int(input("Enter the Number- "))
a = 0

for x in range(no+1):
    a += x
print(a)
```

```
Enter the Number- 5
15
```

In [4]:
```
ls = eval(input("Enter the List/Tuple- "))
add = 0
product = 1

for ele in ls:
    add = add + ele
    product *= ele
print(add, product, sep=" , ")
```

```
Enter the List/Tuple- [1,2,3,4,5]
15 , 120
```

In [22]:
```
#fibanocci series
a = 0
b = 1
no = int(input("Enter Number of fibanocci Digits Needed- "))

for x in range(no):
    c = a + b
    print(a)
    b = a
    a = c
```

```
Enter Number of fibanocci Digits Needed- 15
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
```

In [1]:
```
a = float(input("Enter first number- "))
b = float(input("Enter second number- "))
c = float(input("Enter third number- "))

if a >= b and a >= c:
    print(f"{a} is greater")
elif b >= a and b >= c:
    print(f"{b} is greater")
elif c >= b and c >= a:
    print(f"{c} is greater")
```

```
Enter first number- 5
Enter second number- 6
Enter third number- 6
6.0 is greater
```

In [20]:
```
#palindrome
string = input("Enter Word/Number to be checked- ").lower()
str_rev = string[::-1]

print(f"The given word is a palindrome - {string == str_rev}")
```

```
Enter Word/Number to be checked- Malayalam
The given word is a palindrome - True
```

In [32]:
```
number = int(input("Enter the Number to be checked- "))
numstr = str(number)
n = len(numstr)
add = 0

for x in numstr:
    add += int(x) ** n

if add == number:
    print(True)
else:
    print(False)
```

```
Enter the Number to be checked- 8208
True
```

In [ ]: