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In [2]:

```
number = int(input("Enter the Number:"))
if number % 2 == 0:
    print(number, " Is a Even Number")
else:
    print(number, " Is Odd Number")
```

Enter the Number:15
15 Is Odd Number

In [6]:

```
year = int(input("Enter a Year:"))
if year % 4 == 0 and year % 100 == 0 and year % 400 == 0 :
    print(year, " Is a Leap Year!!")
else:
    print(year, " Is not a Leap Year!!")
```

Enter a Year:2018
2018 Is not a Leap Year!!

In [2]:

```
num = int(input("Enter the Number:"))
a,b = 0,1
temp = 0
for i in range(num):
    #a,b = b,a+b
    a = b
    b = temp
    temp = a+b
    print(temp)
```

Enter the Number:5
1
1
2
3
5

In [12]:

```
fact = 1
number = int(input("Enter a Number"))
for i in range(1,number+1):
    fact = fact * i
print("Factorial of {0} is :{1}".format(number,fact))
```

Enter a Number5
Factorial of 5 is :120

In [16]:

```
number = int(input("Enter a number: "))
sum = 0
temp = number
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10
if number == sum:
    print(number, "is an Armstrong number")
else:
    print(number, "is not an Armstrong number")
```

Enter a number: 123
123 is not an Armstrong number

In [60]:

```
first = int(input("Enter a Starting Number:"))
last = int(input("Enter the Last Number"))
for i in range(first, last+1):
    if i > 1:
        for j in range(2, i):
            if i % j == 0:
                break
        else:
            print(i, end=" ")
```

Enter a Starting Number:10
Enter the Last Number100
11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

In [29]:

```
num = int(input("Enter a Number:"))
if num > 0:
    print(num, " is Greater than Zero!! ")
elif num < 0:
    print(num, "is Small than Zero!!")
else:
    print(num, " Number is equal to Zero!!")
```

Enter a Number:12
12 is Greater than Zero!!

In [62]:

```

start = 0
end = 6
for i in range(start,end+1):
    if i % 3 == 0:
        continue
    else:
        print(i)

```

1
2
4
5

In [34]:

```

Sum = 0
num = int(input("Enter a number:"))
if num > 0:
    for i in range(1,num):
        Sum = Sum + i
    print("Sum of natural Numbers Till {0} is: {1}".format(num,Sum))

```

Enter a number:10

Sum of natural Numbers Till 10 is: 45

In [57]:

```

num = 7
for i in range(0,num+1):
    for j in range(0,i):
        print("A",end=' ')
    print()

```

A
A A
A A A
A A A A
A A A A A
A A A A A A
A A A A A A A

In [59]:

```

k = ""
for i in range(1,10):
    for j in range(0,i):
        k = k + str(i)
    k = k + " "
print(k)

```

1 22 333 4444 55555 666666 7777777 88888888 999999999

