In [1]:

```python
#  using while loop
```

In [2]:

```python
nterms = int(input("enter no of terms? "))
n1, n2 = 1, 1
count = 0
print("Fibonacci sequence:")
while count < nterms:
        print(n1)
        nth = n1 + n2
        # update values
        n1 = n2
        n2 = nth
        count += 1
```

```
enter no of terms? 9
Fibonacci sequence:
1
1
2
3
5
8
13
21
34
```

In [3]:

```python
#  using if condition
```

In [4]:

```python
nterms = int(input("enter no of terms? "))
n1, n2 = 1, 1
count = 0
if nterms == 1:
    print("Fibonacci sequence upto",nterms,":")
    print(n1)
else:
     print("Fibonacci sequence:")
while count < nterms:
        print(n1)
        nth = n1 + n2
        # update values
        n1 = n2
        n2 = nth
        count += 1
```

```
enter no of terms? 9
Fibonacci sequence:
1
1
2
3
5
8
13
21
34
```

In [ ]:

```python

```

In [45]:

```python
x,y=0,1

while y<50:
    print(y)
    x,y = y,x+y
```

```
1
1
2
3
5
8
13
21
34
```