

Kuldeep Raheja

Assignment3

Q1. Write a function to return nth term of Fibonacci sequence.

In [10]:

```
def fibo(n):  
    a,b = 0,1  
    for i in range(1,n):  
        c = a + b  
        a, b = b , c  
    return c
```

fibo(6)

Out[10]:

8

Q2. Write a function to find out GCD of two numbers using EUCLID'S algorithm.

In [16]:

```
def gcd(a, b):  
    if a%b==0:  
        return b  
    else:  
        return gcd(b, a%b)
```

gcd(36, 16)

Out[16]:

4

Q3. Write a function to find LCM of two number in most optimizers way.

In [24]:



```
def lcm(a, b):  
    return a*b//gcd(a, b)  
  
lcm(36,16)
```

Out[24]:

144