

TASK 3

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Assignment 3

1

```
In [17]: def fib_num(n):  
         f_arr=[0,1]  
         if n==1:  
             return(0)  
         if n==2:  
             return(1)  
         for i in range(2,n+1):  
             result=f_arr[i-2]+f_arr[i-1]  
             f_arr.append(result)  
         return result  
         print(fib_num(9))
```

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```
In [39]: def GCD(n,m):  
         x=max(n,m)  
         num=x  
         while True:  
             if num%n==0 and num%m==0:  
                 break  
             num=num+x  
         result=(n*m)//num  
         return result  
         print(GCD(20,28))
```

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3

```
In [35]: def LCM(n,m):  
          x=max(n,m)  
          num=x  
          while True:  
              if num%n==0 and num%m==0:  
                  return num  
                  break  
              num=num+x  
          print(LCM(12,8))
```

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In []:

