Que:-1 Write a Python Program to Display Fibonacci Sequence Using Recursion?

```
In [8]:
         1 #solution:-
         2
         3 def fibonacci(a):
                if a<=1:
         5
                    return a
         6
         7
                   return (fibonacci(a-1) + fibonacci(a-2))
         8 number = int(input("enter the value:-"))
         9
         10 if number<=0:
                print("Provide the positive value")
        11
        12
        13 else:
                for i in range(0,number):
        14
                    print(fibonacci(i),end=" ")
        15
        16
        17
```

enter the value:-9 0 1 1 2 3 5 8 13 21

Que:-2 Write a Python Program to Find Factorial of Number Using Recursion?

Enter a number:-5

Out[2]: 120

Que:-3 Write a Python Program to calculate your Body Mass Index?

```
In [6]:
        1 #solution:-
         2
         3 def bms(w,h):
               if w== 0 and h==0:
                   print("Enter the number greater then zero")
               else:
         7
                    BMS = w/(h**2)
         8
                    print("BMS is:-",BMS)
         9 w=float(input("Enter the weight in K.G:-"))
        10 h= float(input("Enter the height in Feet:-"))
        11 bms(w,h)
        Enter the weight in K.G:-56.8
        Enter the height in Feet:-5.2
        BMS is:- 2.100591715976331
```

Que:-4 Write a Python Program to calculate the natural logarithm of any number?

Enter the number:-10
The Natural Log of 10 is 2.302585092994046

Que:-5 Write a Python Program for cube sum of first n natural numbers?

Enter the number:-5
The cube sum of 5 natural number is 225