**Fibonacci- Find Series, Find the Number, Find Nth Number**

**import math**

**# function to get the nth term**

**def fibnth(n):**

**arr = [0] \* (n + 1)**

**arr[1] = 1**

**for i in range(2, n + 1):**

**arr[i] = arr[i - 1] + arr[i - 2]**

**return arr[n]**

**# function to check the febonacci number**

**def fib1(n):**

**a = 0**

**b = 1**

**if n == 1:**

**print(a)**

**else:**

**print(a)**

**print(b)**

**for i in range(2, n):**

**c = a + b**

**a = b**

**b = c**

**print(c)**

**# function to get square root of the function**

**def perfectSquare(x):**

**s = int(math.sqrt(x))**

**return s \* s == x**

**# choice of the function**

**print("1 = feb generation,2 = check feb number,3= to ge the nth term ")**

**choice = int(input("enter the choice"))**

**if choice == 1:**

**x = int(input("enter number"))**

**fib1(x)**

**elif choice == 2:**

**n = int(input("enter the number"))**

**result1 = 5 \* n \* n + 4**

**result2 = 5 \* n \* n - 4**

**if perfectSquare(result1) or perfectSquare(result2):**

**print(n, "is a febonacci number")**

**else:**

**print(n, "is not a febenocci number")**

**else:**

**print(fibnth(int(input("Enter the term :"))))**

**screenshot of PEP8**

