Assignment -5

AIM:

(a) Find the sum of all the prime no. below 2 million

(b) By considering the term Fibonacci series whose value does ~~exceed~~ exceed 4 million. write a program to find even valued sum.

Program:-

(a)
```
l = []
for i in range (1, 201):
    for j in range (1, i):
        if i % j == 0 and i != j:
            l.append (i)
print ("sum: ", sum(l))
total = 0
for i in range (0, len (l)):
    total = total + l[i]
print ("sum =", total)
```

Output:-

```
sum: 100397
sum = 100397
```

Instructor's Sign

(b)
```
def fib(n):
    a = 0
    b = 1
    a1 = []
    a1.append(a)
    a1.append(b)
    s = 0
    for i in range(1, n+1):
        c = a+b
        a1.append(c)
        a = b
        b = c
#print(a1)
    for j in a1:
        if j % 2 == 0:
            s = s+j
    print("Sum of even terms upto", n, 'are:', s)
fib(50)
```

Output:-

Sum of even terms upto 50 are: 266581455586