Department of Electrical Engineering
Mid – Term Assignment Spring 2020
Date: 25/06/2020

Course Details

Course Title: Programming Fundamentals **Module:** 02
Instructor: **Total Marks:** 50

Student Details

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Q1.	(a)	Write Python code that asks the user for two integer values, it must then add the largest number times the smallest. The output should be in the following manner. Enter Number 1 : 5 Enter Number 2 : 3 Answer = 5+5+5 = 120	Marks 5 CLO 1
	(b)	You are asked to make a times table program in Python where a user will enter starting value, ending value and the value to find the times table for. For example Input Starting Value : 2 Input Ending Value : 4 Input Times Table : 4 4 x 2 = 8 4 x 3 = 12 4 x 4 = 16	Marks 5 CLO 1
Q2.	(a)	Write programs in Python to make the following shapes using LOOPS, a) ****** ****** ****** b) * ** *** **** *****	Marks 14 CLO 1
Q3.	(a)	Write a program in Python where a user is asked for 10 numbers, each number must be shown as ODD or EVEN respectively.	Marks 3 CLO 1

	(b)	You have the following python code, draw the flow chart of the whole code
		nterms = int(input("How many terms? "))
		n1, n2 = 0, 1
		count = 0
		if nterms <= 0:
		print("Please enter a positive integer")
		elif nterms == 1:
		print("Fibonacci sequence upto",nterms,":")
		print(n1)
		else:
		print("Fibonacci sequence:")
		while count < nterms:
		print(n1)
		nth = n1 + n2
		n1 = n2
		n2 = nth
		count += 1
			Marks 3
			CLO 1

Q1 (b)

```
n = int(input("Enter the
        number"))
n1 = int(input(" Starting
        number"))
n2 = int(input(" ending
        number"))
for i in range(n1, n2+1)
print "%d * %d = %d" %
        (n, i, n * i)
table (n, n1, n2).
```

(1)

Q# 21 (a)

```
def triangle(n):
    # K = 2*n - 2
    for i in range(0, n):
        for j in range(0, K):
            print(end = " ")
        K = K - 1
        for j in range(0, i+1)
            print("* ", end = " ")
        print("\r")
n = 5
triangle(n)
```

(3)

Q2 (5).

```
Square_side =
int(input("please enter
  dimension of square"))
print("stare square pattern")
for i in range(Square_side):
 for i in range(Square_side):
print('*' end = ' ')
   print ( )
```

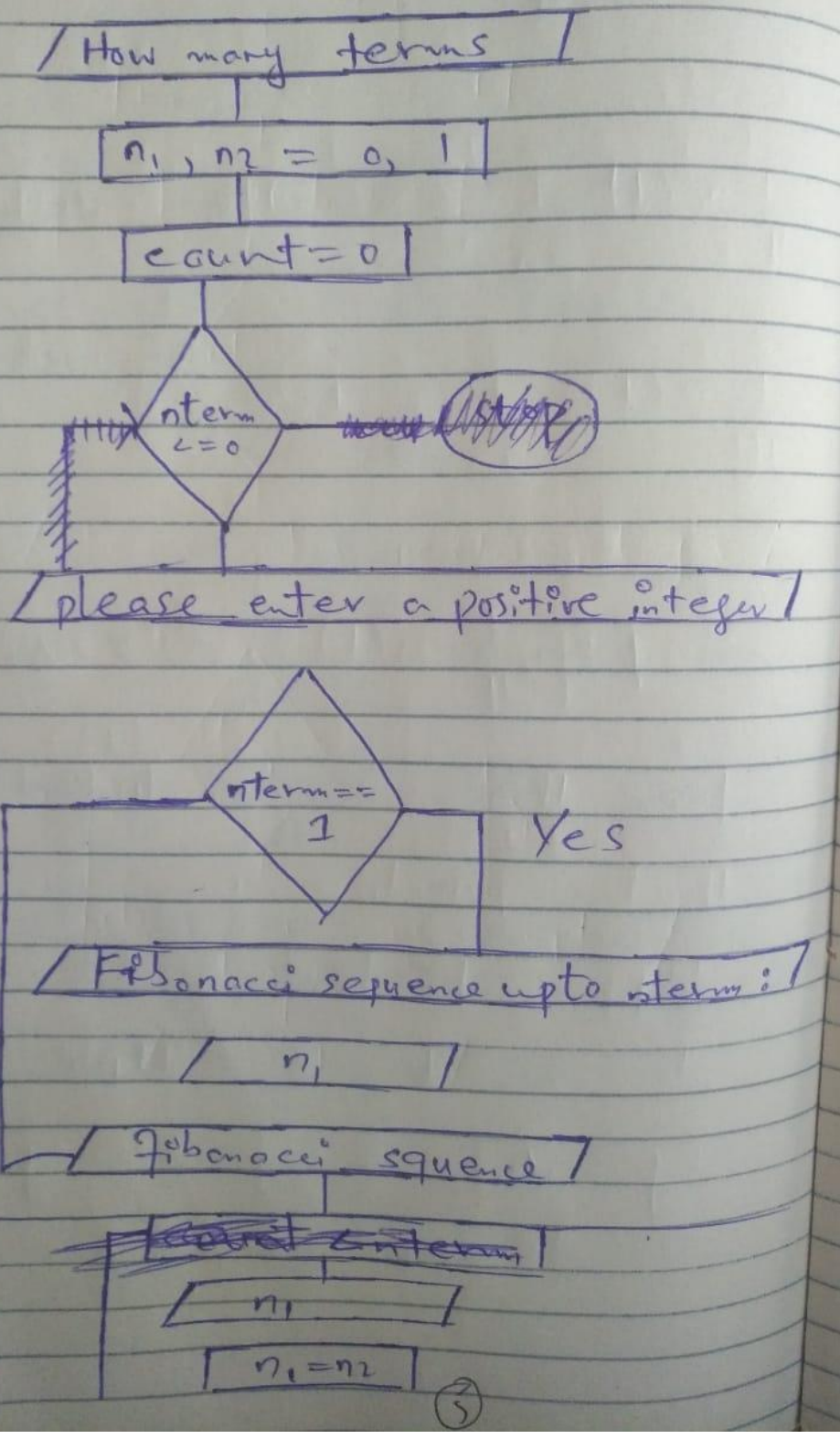
(3)

Q3 (a)

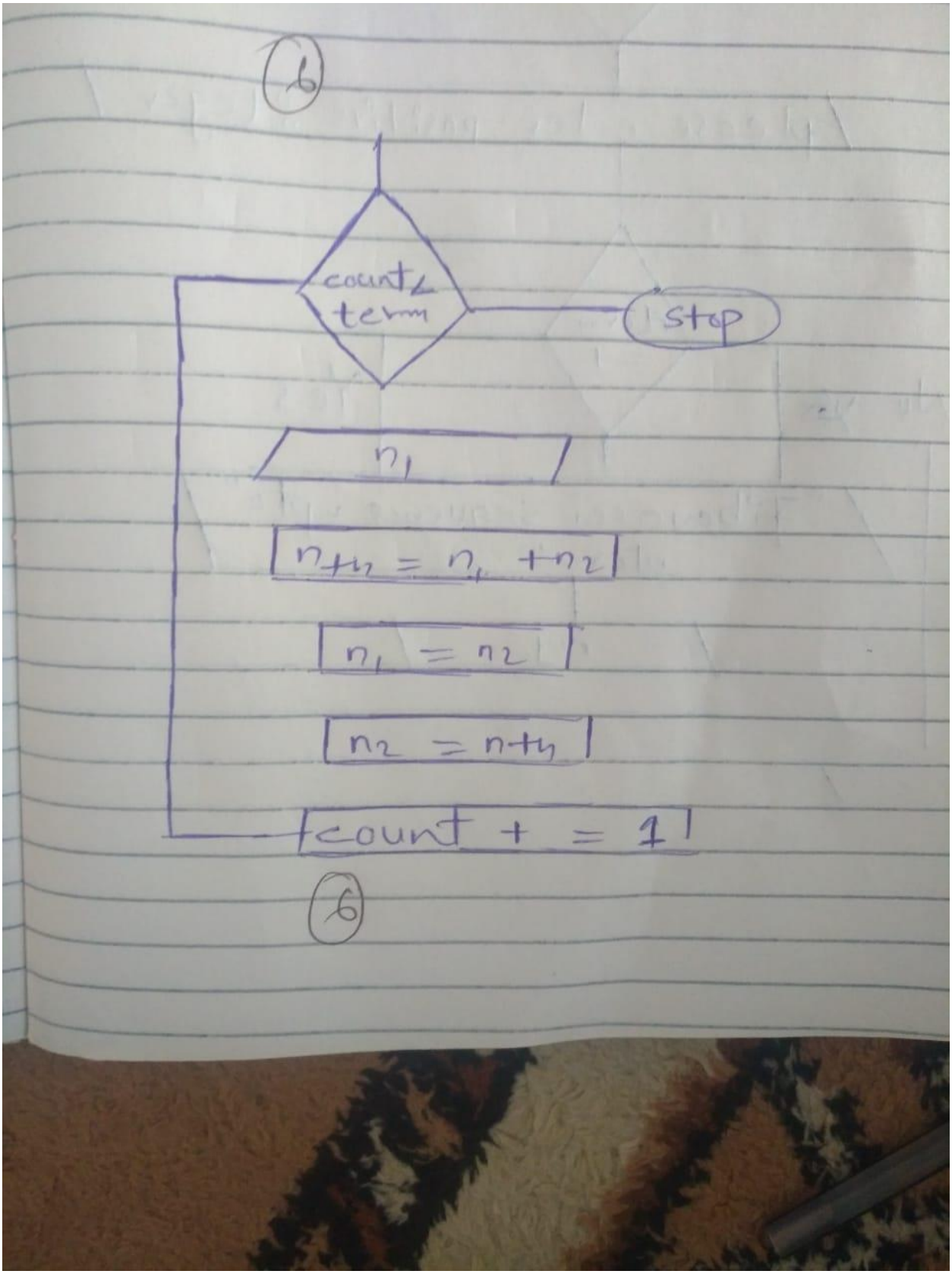
```
List = int(input("Enter the
        10 numbers"))
even_count, odd_count = 0,0
for num in list:
if num % 2 == 0:
    even_count += 1
else:
    odd_count += 1
print("Even number in the
list:", even_count)
print("odd number in the
list:, odd_count)
```

(b) (4)

Q # (3) (b)


How many terms
n1 , n2 = 0, 1
count = 0
nterm <= 0
please enter a positive integer
nterm == 1
Yes
Fibonacci sequence upto nterm :
n1
fibonacci squence
n1
n1 = n2

3


6
count < term
stop
n_1
$n_{th} = n_1 + n_2$
$n_1 = n_2$
$n_2 = n_{th}$
count + = 1
6