Department of Electrical Engineering Mid – Term Assignment Spring 2020

Date: 25/06/2020

Course Details

Course Title:	Programming Fundamentals	Module:	02
Instructor:	sir waqas	Total Marks:	50

Student Details

Name: Bilal Stud	dent ID: <u>16434</u>
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Q1.	(a)	Write Python code that asks the user for two integer values, it must then add the largest number	Marks 5
		times the smallest. The output should be in the following manner.	CLO 1
		Enter Number 2 : 3	
		Answer = 5+5+5 = 15	
	(b)	You are asked to make a times table program in Python where a user will enter starting value,	Marks 5
	ending value and the value to find the times table for. For example		CLO 1
		Input Starting Value : 2	
		Input Ending Value : 4	
		Input Times Table : 4	
		$4 \times 2 = 8$	
		4 x 3 = 12 4 x 4 = 16	
Q2.	(a)	Write programs in Python to make the following shapes using LOOPS,	Marks 14
Q2.	(a)	write programs in r ython to make the following snapes using LOOFS,	CLO 1
		a) *****	CLOT

		b) *	
		**	
		*** ****	

Q3.	(a)	Write a program in Python where a user is asked for 10 numbers, each number must be shown as	Marks 3
		ODD or EVEN respectively.	CLO 1
	(b)	You have the following python code, draw the flow chart of the whole code	Marks 3
		nterms = int(input("How many terms? "))	CLO 1
		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)	
	1		
		n1 = n2	

	count += 1	

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#2 1. Part (a)
a = int(input("Enter number 1: "))
b= int(input("Enter number 2: "))
sum = 0
if a>b:
     for x in range (b):
         sum=a+sum
    print ("Answer: ", sum)
0130:
    for x in range(a):
        sum=b+sum
    print ("Answer:", sum)
```

b

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Python 3.8.3rc1 (tags/v3.8.3rc1 it (AMD64)] on win32

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Enter number 1: 4 Enter number 2: 3

Answer: 12

>>>

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#Q.1 Part (b)
startNum= int(input("Enter number 1: "))
endNum= int(input("Enter number 2: "))
tableNum= int(input("Enter number 3: "))
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for x in range(startNum, endNum+1):
    ans = tableNum*x
    print(tableNum, "x", x, "=", ans)
```

atsApp × B *Pyth File Edit Shell Debug Options Window Help Python 3.8.3rc1 (tags/v3.8.3rc1:802eb it (AMD64)] on win32 Type "help", "copyright", "credits" or ==== RESTART: C:/Users/PUBG PC/AppData Enter number 1: 3 Enter number 2: 2 Enter number 3: 4

```
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**Q NO 2

**ANs

rows = int(input("Please Enter the Total Number of Rows : "))

columns = int(input("Please Enter the Total Number of Columns : "))

print("Rectangle Star Pattern")

for i in range(rows):

for j in range(columns):
    print('*', end = ' ')

print()
```

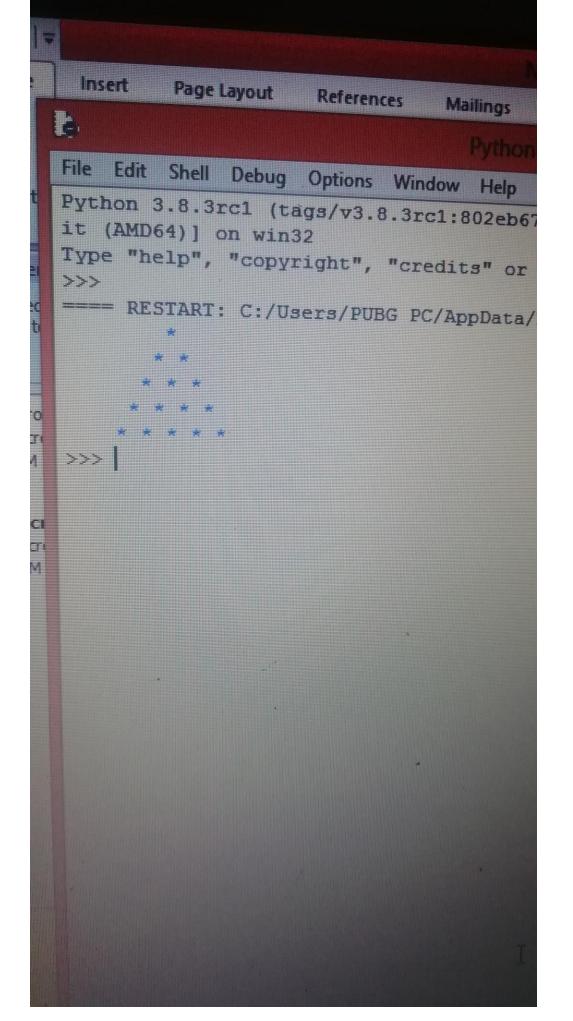
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it (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

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Review

gf.py - C:/Users/PUBG PC/AppData/Local/Programs/Pytr

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#Qno 2 :part b
#ANS:
def triangle(n):
    # number of spaces
    k = 2*n - 2
    # outer loop to handle number of rows
    for i in range(0, n):
        for j in range(0, k):
           print (end=" ")
        # decrementing k after each loop
        k = k - 1
        for j in range(0, i+1):
          . # printing stars
           print("* ", end="")
       # ending line after each row
       print("\r")
# Driver Code
n = 5
triangle(n)
```



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References

Mailings

Review

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*gf.py - C:/Users/PUBG PC/AppData/Local/Programs/
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File Edit Format Run Options Window Help
*Q no 3 (a) :
#ANS:
a=[]
n=int(input("Enter number of elements:"))
for i in range(1, n+1):
   b=int(input("Enter element:"))
    a.append(b)
even=[]
odd=[]
for j in a:
    if(j%2==0):
        even.append(j)
    else:
        odd.append(j)
print("The even list", even)
print ("The odd list", odd)
```

19 · (* | = Python File Edit Shell Debug Options Window Help Python 3.8.3rc1 (tags/v3.8.3rc1:802eb67, it (AMD64)] on win32 Type "help", "copyright", "credits" or "] >>> ==== RESTART: C:/Users/PUBG PC/AppData/Lo Œ Enter number of elements:10 loi Enter element: 4 1e Enter element:9 Enter element: 76 Enter element: 456 Enter element: 76 Enter element:8 Enter element:3 Enter element: 67 Enter element: 6 Enter element: 3 The even list [4, 76, 456, 76, 8, 6] The odd list [9, 3, 67, 3] >>>

