

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

Course Details

Course Title:	Programming Fundamentals	Module:	02
Instructor:	Engr Muhammad Waqas	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. <div style="text-align: center;"> Enter Number 1 : 5 Enter Number 2 : 3 Answer = 3+3+3+3+3 = 15 </div>	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 <div style="text-align: center;"> Input Starting Value : 2 Input Ending Value : 4 Input Times Table : 4 4 x 2 = 8 4 x 3 = 12 4 x 4 = 16 </div>	Marks 5 CLO 1
Q2	(a)	Write programs in Python to make the following shapes using LOOPS, a) ***** ***** ***** b) * ** *** **** *****	Marks 14 CLO 1
	(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
Q3	(b)	You have the following python code, draw the flow chart of the whole code <pre> 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 </pre>	Marks 3 CLO 1

ANS 1 Part a	<pre> n1=input("Enter number 1:"); n2=input("Enter number 2:"); if n1>n2: int a=0; while (a<n1) int n3=n2; a=a+1; n3=n3+n2; print("Answer is"n3) else : int a=0; while (a<n1) int n3=n2; a=a+1; n3=n3+n2; print("Answer is"n3) </pre>
ANS 1 Part b	<pre> n1=input("Enter starting value:"); n2=input("Enter ending value:"); n3=input("Enter times table value:"); int n4=n3*n1 print(n4) int a=1 while (a!=n2) n4=n3*(n1+1) a=a+1 n1=n1+1 print(n4) </pre>
Ans 2 a	<pre> int n1=0 int n2 =1 while(n1!=3) print("*") n2=n2+1; if(n2==6) print("\r") n2==1 n1=n1+1; </pre>
b	<pre> n=input ("enter value for number of rows") int spaces = 2*n - 2 for I in range(0, n): for j in range(0, spaces): print(end=" ") spaces = spaces - 1 for j in range(0, i+1): print("*", end="") print("\r") </pre>

Ans
3
Part
a

```
numbers = range(0,10)
n=1
for i in numbers:
    if(n%2==0):
        print(n,"is even number")
    else:
        print(n,"is odd number")
    n=n+1
```

Ans
3
Part
b



