

Department of Electrical Engineering

Mid – Term Assignment Spring 2020

Date: 25/06/2020

Course Details

Course Title: Programming Fundamentals
Instructor: sir M WAQAS

Module: 02
Total Marks: 50

Student Details

Name: OKASH AHMAD

Student ID: 13223

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 = 5+5+5 = 120 </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

①

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Paper	programming fundamental

Q#1(a)

```
X = int(input("Enter an integer:"))
```

```
Y = int(input("Enter another integer:"))
```

```
if x > y:
```

```
    i = 0
```

```
    while i < x:
```

```
        i = x + x
```

```
        print ( )
```

```
        i += 1
```

```
    x <-----> x
```

Q#1(b)

```
x = int(input("Starting value:"))
```

```
y = int(input("Ending value:"))
```

```
z = int(input("input times table:"))
```

```
while x <= y:
```

(2)

```
Print(z, 'x', x, '=', z*x)
```

$x += 1$.

X ← → X

Q#2(a)

```
Print("print stars")
```

size = 6

```
for i in range(3, size):
```

```
for j in range(0, 6):
```

```
Print("*", end='')
```

```
Print("\n")
```

X ← → X

Q#2(b)

size = 5

$m = (2 * size) - 2$

```
for i in range(0, size):
```

```
for j in range(0, m):
```

③

```
Print (end=" ")
```

```
m = m - 1
```

```
for j in range (0, i + 1):
```

```
Print ("*", end=" ")
```

```
Print (" ")
```

X ← → X

Q#3(a)

```
numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)
```

```
Count_odd = 0
```

```
Count_even = 0
```

```
for x in numbers:
```

```
if not x % 2:
```

```
Count_even += 1
```

```
else:
```

```
Count_odd += 1
```

```
Print ("Number of even numbers:", Count_even)
```

```
Print (Number of odd numbers:", Count_odd)
```

4

Q# 3(b)

