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Subject : Programming  
Fundamental

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Q No 1 Part (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 =  $5 + 5 + 5 = 15$

Ans:

Python Program

- 1) `a = input()`
- 2) `First = int(a)`
- 3) `b = input()`
- 4) `Second = int(b)`
- 5) `c = input()`
- 6) `Third = int(c)`
- 7) `d = input()`
- 8) `Fourth = int(d)`
- 9) `if a > b or a > c or a > d:`
- 10) `Print ('The largest number' + a)`
- 11) `elif a < b or a < c or a < d:`
- 12) `Print ('The smallest number' + a)`
- 13) `elif b > a or b > c or b > d:`



- 14) Print ('The largest number' + b)
- 15) elif  $b < a$  or  $b < c$  or  $b < d$ :
- 16) Print ('The smallest number is' + b)
- 17) elif  $d > a$  or  $d > b$  or  $d > c$ :
- 18) Print ('The biggest number is' + d)
- 19) elif  $d < a$  or  $d < b$  or  $d < c$
- 20) Print ('The smallest number is' + d)
- 21) else:

Q1 Part (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

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$



Ans:

Python Program

- 1) # Multiplication table (from 1 to 10) in Python
- 2)
- 3) num = 4
- 4)
- 5) # To take input from the user
- 6) # num = int(input("display multiplication table of?"))
- 7)
- 8) # Iterate 10 times from i = 1 to 10
- 9) for i in range(1, 11):
- 10) print(num, 'x', i, '=', num \* i)

QNo2: (a)

write Program in Python to make the following shapes using loops.

a) 

```
* * * * *
 * * * * *
 * * * * *
```

b) 

```
  *
 * *
* * *
* * * *
* * * * *
```



a) Program

1) # Python Program to Print Square

Start Pattern

2) Side = int(input("Please Enter any  
Side of a Square:"))

3) Print ("Square Start Pattern")

4) for i in range(Side):

5)     for i in range(Side):

6)         Print ("\*", end=" ")

7)     Print ()

b) "Program"

# Python 3.x Code to demonstrate

# Function to demonstrate Print in

def triangle(n):

# number of spaces

k = 2\*n - 2

# Outer loop to handle number

for i in range(0, n):

# inner loop to handle number

# values changing acc. to



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

```
    print(end=" ")
```

```
# decrementing k after ea
```

```
    k = k - 1
```

```
# inner loop to handle nu:
```

```
# values changing acc. to
```

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

```
    # Printing stars
```

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

```
# ending line after each
```

```
    print("\n")
```

```
# ending line after each
```

```
# Driver Code
```

```
n = 5
```

```
triangle(n)
```



Q No 3. Part (a)

Write a program in Python where a user is asked for 10 numbers, each number must be shown as ODD or Even respectively.

Ans: Program

```
1) numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)
   # Declaring
2) Count_odd = 0
3) Count_even = 0
4) for x in numbers:
5)     if not x % 2:
6)         Count_even += 1
7)     else:
8)         Count_odd += 1
9) Print ("Number of even numbers:",
         Count_even)
10) Print ("Number of odd numbers:",
         Count_odd)
```



Q No 3 Part (b)

Ans:

