

Project 13: [Roll numbers:37,38,39]

Create a multiplication table application where user will enter a sentinel value n and the application will display the mathematical multiplication tables till given sentinel value n .

For example, if user enters $n = 4$ then application will display the multiplication tables of 2, 3, and 4.

Constraint:

- Make use of oop concepts class methods and attributes

(Student is free to decide the input and output layout for this mini project)



project.py <untitled>

```
1 def multiplication_table(n):
2     count=1
3     a=2
4     while count<n:
5         print(f"Table of {a}:")
6         for i in range(1,11):
7             print(f"{a}*{i}=",a*i)
8         print()
9         count+=1
10        a+=1
11 table_limit=int(input("Enter the number till which tables are to be printed:"))
12 multiplication_table(table_limit)
13
```

Shell

Python 3.7.9 (bundled)

>>>

Shell *
/// main project.py

Enter the number till which tables are to be printed:10

Table of 2:

2*1= 2
2*2= 4
2*3= 6
2*4= 8
2*5= 10
2*6= 12
2*7= 14
2*8= 16
2*9= 18
2*10= 20

Table of 3:

3*1= 3
3*2= 6
3*3= 9
3*4= 12
3*5= 15
3*6= 18
3*7= 21
3*8= 24
3*9= 27
3*10= 30

Table of 4:

4*1= 4
4*2= 8
4*3= 12
4*4= 16
4*5= 20
4*6= 24
4*7= 28
4*8= 32
4*9= 36
4*10= 40

Table of 5:

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$

Table of 6:

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$

Table of 7:

$7 \times 1 = 7$
 $7 \times 2 = 14$
 $7 \times 3 = 21$
 $7 \times 4 = 28$
 $7 \times 5 = 35$
 $7 \times 6 = 42$
 $7 \times 7 = 49$
 $7 \times 8 = 56$
 $7 \times 9 = 63$
 $7 \times 10 = 70$

Table of 8:

$8 \times 1 = 8$

Table of 8:

$8 \times 1 = 8$

$8 \times 2 = 16$

$8 \times 3 = 24$

$8 \times 4 = 32$

$8 \times 5 = 40$

$8 \times 6 = 48$

$8 \times 7 = 56$

$8 \times 8 = 64$

$8 \times 9 = 72$

$8 \times 10 = 80$

Table of 9:

$9 \times 1 = 9$

$9 \times 2 = 18$

$9 \times 3 = 27$

$9 \times 4 = 36$

$9 \times 5 = 45$

$9 \times 6 = 54$

$9 \times 7 = 63$

$9 \times 8 = 72$

$9 \times 9 = 81$

$9 \times 10 = 90$

Table of 10:

$10 \times 1 = 10$

$10 \times 2 = 20$

$10 \times 3 = 30$

$10 \times 4 = 40$

$10 \times 5 = 50$

$10 \times 6 = 60$

$10 \times 7 = 70$

$10 \times 8 = 80$

$10 \times 9 = 90$

$10 \times 10 = 100$

Table of 8:

$8*1=$	8
$8*2=$	16
$8*3=$	24
$8*4=$	32
$8*5=$	40
$8*6=$	48
$8*7=$	56
$8*8=$	64
$8*9=$	72
$8*10=$	80

Table of 9:

$9*1=$	9
$9*2=$	18
$9*3=$	27
$9*4=$	36
$9*5=$	45
$9*6=$	54
$9*7=$	63
$9*8=$	72
$9*9=$	81
$9*10=$	90

Table of 10:

$10*1=$	10
$10*2=$	20
$10*3=$	30
$10*4=$	40
$10*5=$	50
$10*6=$	60
$10*7=$	70
$10*8=$	80
$10*9=$	90
$10*10=$	100