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Section : C203

Midterm Lab Task 2

Problem 1.

Create a countdown timer, where the user is prompted to enter time in seconds and will countdown to zero (set timer delay to 1) using `time.sleep(time_lapse)`. The program should prompt the user to test the timer if the answer is 'y' it will ask the user to enter time in second. If the answer is 'n' it will terminate the timer. Your response to y or n should be case insensitive.

Code.

```
main.py x
1  #Sicheco_p1
2  import time
3
4  while 0 != 1:
5      choice = input("Start timer[y][n]?:".lower()
6      if choice == 'n':
7          print("Bye!!!! Don't come back again")
8          exit()
9      time_in_seconds = int(input("Enter your time in seconds: "))
10     for t in range(time_in_seconds, 0, -1):
11         seconds = t % 60
12         minutes = t % 3600 // 60
13         hours = t // 3600
14         print(f"{hours:02}:{minutes:02}:{seconds:02}")
15         time.sleep(1)
16     print("Times up!\n")
```

Output.

```
C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\main.py
Start timer[y][n]?:.
Bye!!!! Don't come back again
Process finished with exit code 0
```

```

C:\Users\CDMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\CDMLAB\PycharmProjects\pythonProject1\main.py
Start timer[y][n]?:
Enter your time in seconds: 10
00:00:10
00:00:09
00:00:08
00:00:07
00:00:06
00:00:05
00:00:04
00:00:03
00:00:02
00:00:01
Times up!

Start timer[y][n]?:
Bye!!!! Don't come back again

Process finished with exit code 0
|

```

Problem 2.

Create a multiplication table using nested for loop. Prompt the user for values.

Code.

```

main.py x
1  #Sicheco p2
2
3  rows = int(input("Enter number of rows: "))
4  column = int(input("Enter number of column: "))
5
6  print("\t\tMultiplication Table")
7  for i in range(1, column + 1, 1):
8      for j in range(1, rows + 1, 1):
9          print(f"{i * j}\t", end="")
10 print()

```

Output.

```
C:\Users\CONRAD\Pycharm\Projects\python\Project1\venv>
Enter number of rows: 10
Enter number of column: 10

      Multiplication Table
1  2  3  4  5  6  7  8  9  10
2  4  6  8  10 12 14 16 18 20
3  6  9  12 15 18 21 24 27 30
4  8  12 16 20 24 28 32 36 40
5  10 15 20 25 30 35 40 45 50
6  12 18 24 30 36 42 48 54 60
7  14 21 28 35 42 49 56 63 70
8  16 24 32 40 48 56 64 72 80
9  18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100

Process finished with exit code 0
```

```
Enter number of rows: 8
Enter number of column: 3

      Multiplication Table
1  2  3  4  5  6  7  8
2  4  6  8  10 12 14 16
3  6  9  12 15 18 21 24
```