

# Lesson 01 - Extra Exercises

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## Assignment 01 - Basic Menu

### Task 01

Create the menu shown below using only the print function

```
1  =====
2  = welcome to the ATM =
3  =====
4  =                      =
5  = 1. Balance          =
6  = 2. Change PIN       =
7  = 3. Withdraw         =
8  = x. Exit              =
9  =                      =
10 =====
```

### Task 02

Copy the code from part 01 Modify the code to create the menu using only 1 print function and the \n function.

### Task 03

Copy the code from part 01 and modify the code to create the spaces using the \t function.

Note: You may need to modify the length of the 3 full lines for it to appear correct

## Task 04

Using what you learned in the previous 2 tasks. Create a final menu using only 1 print function and the tab and new line functions.

## Assignment 02 – Basic Drawing

### Task 01

Create the following calculator in Python using only the print function.

```
1  | _____ |
2  | | | | | | | | |
3  | | _____ | |
4  | | | | | | | | |
5  | | | _____ | |
6  | | _ _ _ _ _ | |
7  | | 7 | 8 | 9 | | + | |
8  | | | _ | _ | _ | | _ | |
9  | | 4 | 5 | 6 | | - | |
10 | | | _ | _ | _ | | _ | |
11 | | 1 | 2 | 3 | | x | |
12 | | | _ | _ | _ | | _ | |
13 | | . | 0 | = | | / | |
14 | | | _ | _ | _ | | _ | |
15 | | | | | | | | |
16 | _____ |
```

### Task 02

Modify the code to convert it to the scientific calculator shown below

```
1  | _____ |
2  | | | | | | | | |
3  | | _____ | |
4  | | | | | | | | |
5  | | | _____ | |
6  | | _ _ _ _ _ | |
7  | | | _ | _ | _ | _ | _ | |
8  | | | _ | _ | _ | _ | _ | |
```

```

 9 | | _ | _ | _ | _ | _ | _ | |
10 | | _ | _ | _ | _ | _ | _ | |
11 | | _ | _ | _ | _ | _ | _ | |
12 | | _ | _ | _ | _ | _ | _ | |
13 | | 7 | 8 | 9 | | + | |
14 | | _ | _ | _ | | _ | |
15 | | 4 | 5 | 6 | | - | |
16 | | _ | _ | _ | | _ | |
17 | | 1 | 2 | 3 | | x | |
18 | | _ | _ | _ | | _ | |
19 | | . | 0 | = | | / | |
20 | | _ | _ | _ | | _ | |
21 | | | | | | | |
22 | | | | | | | |

```

## Assignment 03 – ASCII Art (optional)

Search for Ascii art online and attempt to create it using Python. This is an optional assignment only.