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Logic and Programming I Assignment 4
Program 3

The transform fucntion is for adding the content of the input file to the empty target list.
The scroeGrid is an empty big list including many lists and that will display the answer the players hit.
For the answer that the players haven't hit yet will be an empty space. (Will be display as StrMsg)

Computer will autimatically consider the condition is true, so the players can input something.
If it is not numeric or in a certain range will be consider as false.
If the answer has been guessed before is also a false.
x is for hit and O is for a miss.

When the players sink all the ships before running out all of the missiles can win the game.
Otherwise is a lose.
The "else: continue break" part is for breaking the program when it match certain conditions.

0,0,0,1,1,1,0,0,0,0
0,0,0,0,0,0,0,0,1,0
0,0,0,0,0,0,0,0,1,0
0,0,0,0,0,0,0,0,1,0
0,0,0,1,0,0,0,0,1,0
0,0,0,1,0,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
0,0,0,0,0,0,1,1,1,0
1,1,1,1,1,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
```

Assignment 4.3.py

```
                target = target.upper()
                if target == "":
                    False
                elif not target[1:].isnumeric():
                    False
                elif int(ord(target[0]))-65 not in range(0,10) or int(target[1:])-1 not in range(0,10):
                    False
                else:
                    row = ord(target[0])-65
                    column = int(target[1:])-1
                    if scoreGrid[column][row] == "X"  or scoreGrid[column][row] == "O":
                        False
                    else:
                        break

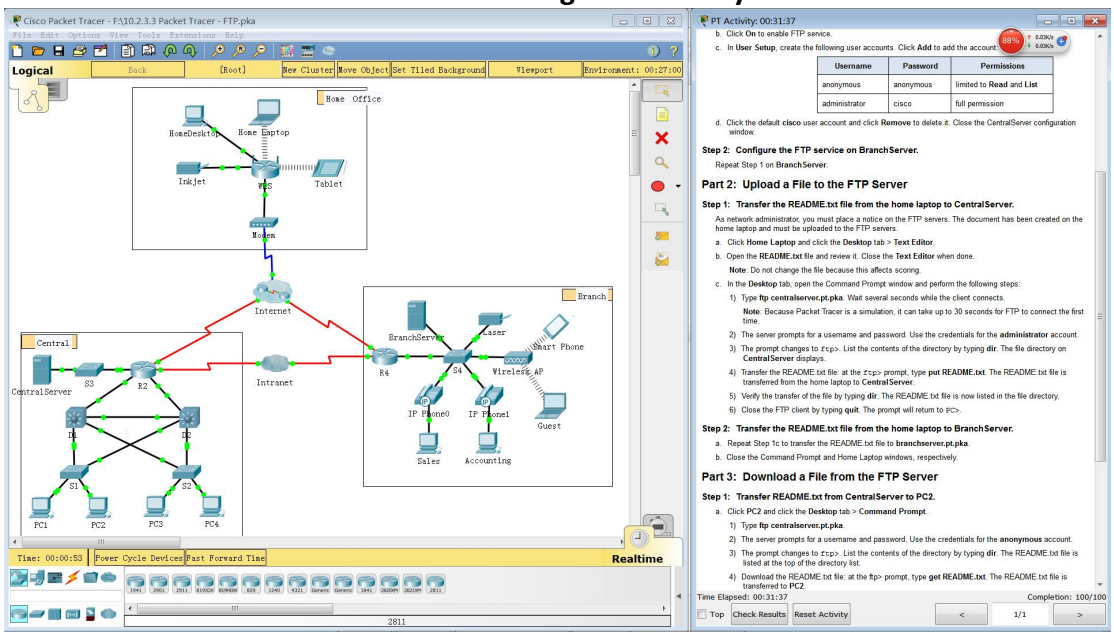
            if targetGrid[column][row] == "1":
                sank_number += 1
                scoreGrid[column][row] = "X"
                print("Hit!!!!!")
            else:
                scoreGrid[column][row] = "O"
                print("Miss")

            if sank_number == 17 and missile_number >= 1:
                print("YOU SANK MY ENTIRE FLEET!\nYou had 17 of 17 hits, which sank all the ships.\nYou won
            elif sank_number < 17 and missile_number == 1:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Choose your target (Ex. A1): H8
Hit!!!!!
You have 25 missiles remaining
   A B C D E F G H I J
1   O O
2
3
4
5         O
6
7
8      O      X
9
10
Choose your target (Ex. A1):
```

Introduction to Networking and Security NETW 1700



Data Fundamentals DBAS 1007