



```
1 from random import randint
2
3 Hidden_Pattern = [[' ']*8 for x in range(8)]
4 Guess_Pattern = [[' ']*8 for x in range(8)]
5
6 let_to_num = {'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F':
7
8
9 def print_board(board):
10     print(' A B C D E F G H')
11     print(' *****')
12     row_num = 1
13     for row in board:
14         print("%d|%s|" % (row_num, "|".join(row)))
15         row_num += 1
16
17
18 def get_ship_location():
19     """Enter the row number between 1 to 8"""
20     row = input('Please enter a ship row 1-8 ').upper()
21     while row not in '12345678':
22         print("Please enter a valid row ")
23         row = input('Please enter a ship row 1-8 ')
24     """Enter the Ship column from A TO H"""
25     column = input('Please enter a ship column A-H ').upper()
26     while column not in 'ABCDEFGH':
27         print("Please enter a valid column ")
28         column = input('Please enter a ship column A-H ')
29     return int(row)-1, let_to_num[column]
30
31
32 def create_ships(board):
33     """Function that creates the ships"""
34     for ship in range(5):
35         ship_r, ship_cl = randint(0, 7), randint(0, 7)
36         while board[ship_r][ship_cl] == 'X':
```

Settings:



Results:

All clear, no errors found