



Mayor Game

Done on Python for Programming 1 Final Assignment

Objective of the game is to build building in a certain way on the map and score the highest point.

```
Welcome, mayor of Simp City!
```

```
-----
```

1. Start new game
2. Load saved game
3. Show high scores
0. Exit

```
Your choice?
```

At the start of the game, the user will be prompted with a welcome message, then the choice of starting a new game, loading a saved game, showing the high score or exiting.

```
{'HSE': 8, 'FAC': 8, 'SHP': 8, 'HWY': 8, 'BCH': 8}
```

```
  A      B      C      D
```

```
+-----+-----+-----+-----+
```

```
1|      |      |      |      |
```

```
+-----+-----+-----+-----+
```

```
2|      |      |      |      |
```

```
+-----+-----+-----+-----+
```

```
3|      |      |      |      |
```

```
+-----+-----+-----+-----+
```

```
4|      |      |      |      |
```

```
+-----+-----+-----+-----+
```

1. Build a HSE
2. Build a HSE
3. See remaining Buildings
4. See current score
5. Save game
0. Exit to main menu

```
Your Choice? |
```

Upon the start of a new game, the top would have the amount of building left for the game. The “map” can also be seen. A 4x4 Grid with locations on its axis. The user is then presented with 6 options. 2 options of build a randomly generated building. Being able to see the remaining building. Their current score, being able to save the current game, and exiting to main menu.

```

Turn 8

  A      B      C      D
+-----+-----+-----+
1| HSE | SHP |      |      |
+-----+-----+-----+
2| FAC |      |      |      |
+-----+-----+-----+
3| HSE |      |      |      |
+-----+-----+-----+
4| FAC | HSE |      | HSE |
+-----+-----+-----+

1. Build a SHP
2. Build a FAC
3. See remaining Buildings
4. See current score
5. Save game
0. Exit to main menu
Your Choice? 1
Build where? C2

```

At each round, the top would show the turn number, the current map and the options.

```

Final layout of Simp City:

  A      B      C      D
+-----+-----+-----+
1| HSE | SHP | FAC | SHP |
+-----+-----+-----+
2| FAC | HSE | SHP | HSE |
+-----+-----+-----+
3| HSE | HSE | FAC | BCH |
+-----+-----+-----+
4| FAC | HSE | SHP | HSE |
+-----+-----+-----+

HSE: 1 + 1 + 4 + 1 + 1 + 1 + 3 = 12
SHP: 2 + 2 + 2 + 2 = 8
HWY: 0
FAC: 4 + 4 + 4 + 4 = 16
BCH: 3
Total score: 23
Congratulations! You made the high score board at position 2!
Please enter your name (max 20 chars):

```

Upon completion of the game, the final layout would be shown, the scores will be tabulated and shown. If the score is in the leaderboard positions, the users name would also be asked to be imputed.

```

----- HIGH SCORES -----
Pos Player                      Score
--- -----
 1. branson                      25
 2. bRANSON                     23
-----

Welcome, mayor of Simp City!
-----

1. Start new game
2. Load saved game
3. Show high scores
0. Exit
Your choice? |

```

At the end of the game , the score board will be shown and the choice of starting a new game will be shown.

```

{'HSE': 4, 'FAC': 6, 'SHP': 6, 'HWY': 8, 'BCH': 8}
Turn 9

   A   B   C   D
+---+---+---+---+
1| HSE | SHP |   |   |
+---+---+---+---+
2| FAC |   | SHP |   |
+---+---+---+---+
3| HSE |   |   |   |
+---+---+---+---+
4| FAC | HSE |   | HSE |
+---+---+---+---+

1. Build a SHP
2. Build a HSE
3. See remaining Buildings
4. See current score
5. Save game
0. Exit to main menu
Your Choice? 1\
Error! Invalid option!

```

If the user inputs an error into the locations, the game would detect it and let the user input again.