

# 2048 Game

## Table of Contents

<b>Version history .....</b>	<b>3</b>
<b>1. 2048 Game.....</b>	<b>4</b>
<b>2. Flow chart.....</b>	<b>4</b>
<b>3. Repository: .....</b>	<b>5</b>
<b>4. How to Run the Project .....</b>	<b>5</b>
<b>5. Sample Output Using Python.....</b>	<b>5</b>
<b>6. Sample Output Using nodejs.....</b>	<b>6</b>

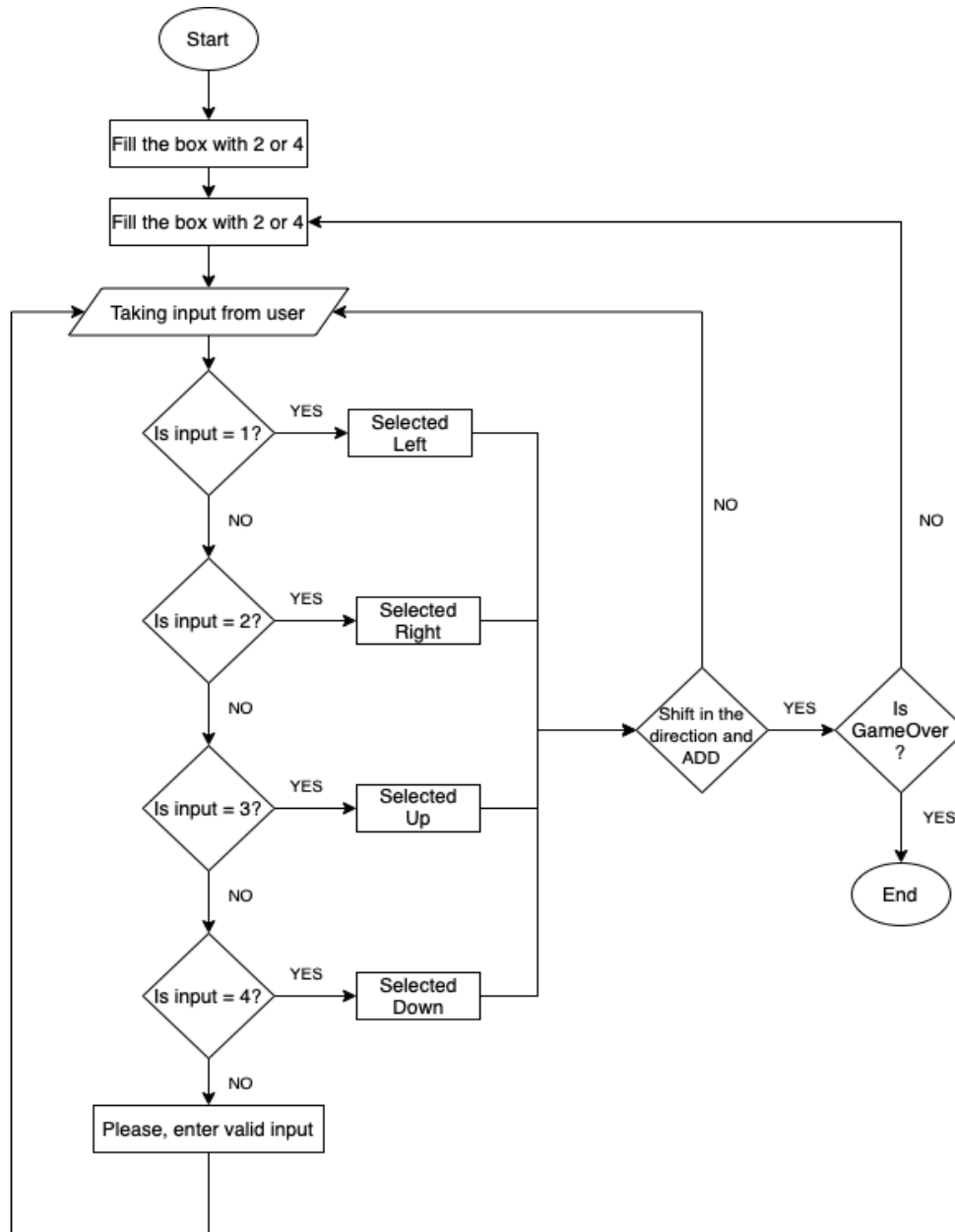
## Version history

Sl No	Date	Version	Author
1	07-Feb-2022	0.1	Ch. S V Gani Prabhakar

## 1. 2048 Game

2048 is played on a gray 4×4 grid, with numbered tiles that slide when a player moves them using the keys 1, 2, 3 and 4 as Left, Right, Up and Down respectively.

## 2. Flow chart



### 3. Repository:

<https://github.com/svgani/ather2048>

### 4. How to Run the Project

#### Prerequisites

- Software: Python 3 and above, Node.
- Operating System: Windows or Linux based.

#### Execution on console

- Please execute the following command: `python3 2048.py`

#### Execution on nodejs

- Please go to `ui_2048` folder
- Please install node modules: `npm install`
- Please execute the following command `npm start`

### 5. Sample Output Using Python

Note: The following output will be displayed when the game is started.

```
sh-3.2$ python3 2048.py
```

```
Score: 0
```

```
-----  
|   |   |   |   |  
-----  
|   |   |   |   |  
-----  
|   |   |   | 4 |  
-----  
|   |   | 2 |   |  
-----
```

```
Enter
```

- ```
1 --> left  
2 --> right  
3 --> up  
4 --> down
```

Note: The following output will be displayed when the game is completed.

```
-----  
|   4 |   2 |   8 |   4 |  
-----  
|   2 |   4 |  16 |   8 |  
-----  
|   8 |  16 |   2 |   4 |  
-----  
|   2 |   8 |   4 |   2 |  
-----  
Thanks for playing  
Score: 128
```

## 6. Sample Output Using nodejs

```
sh-3.2$ cd ui_2048/  
  
sh-3.2$ npm install  
  
up to date, audited 64 packages in 1s  
  
2 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities  
  
sh-3.2$ npm start  
  
> ather_2048game@1.0.0 start  
  
> node index.js  
  
Server is running at port 8123
```

- The following output will be displayed when the game is started.

2048

Score: 0

|  |   |   |  |
|--|---|---|--|
|  | 2 |   |  |
|  |   | 2 |  |
|  |   |   |  |
|  |   |   |  |



- The following output will be displayed when the game is completed.

2048

Score: 1388

|    |    |    |     |
|----|----|----|-----|
| 4  | 8  | 32 | 8   |
| 16 | 32 | 64 | 128 |
| 8  | 2  | 16 | 4   |
| 2  | 8  | 32 | 2   |

