

REG NO. : 20BAI1005

```
import random as r

class environment:
    def __init__(self, size):
        self.size = size
        self.field = [['#']*(size+2)] + [['#']+[' ']*size+['#']]*size + [['#']*(size+2)]
        l = ['#', ' ']
        for i in range(1,51):
            self.field[i] = ['#'] + r.choices(l, weights=[1,10], k = self.size) + ['#']

    def display(self):
        for i in range(self.size+2):
            for j in range(self.size+2):
                print(self.field[i][j], end='')
            print()
```

```
env.display()
```

A 100x100 grid of 10,000 random points, represented by small black squares, distributed across the page.

