```
In [1]: #Initialize Parameters
    cur_x = 2
    rate = 0.01
    precision = 0.000001
    previous_step_size = 1
    max_iters = 1000
    iters = 0
    df = lambda x : 2 * (x + 3) #Gradient of our function i.e (x + 3)²
```

```
In [2]: #Run a loop to perform gradient Descent
while previous_step_size > precision and iters < max_iters:
    prev_x = cur_x
    cur_x -= rate * df(prev_x)
    previous_step_size = abs(prev_x - cur_x)
    iters += 1
    print("Local Minima Occurs at :",cur_x)</pre>
```

Local Minima Occurs at : -2.999951128099859