

```
pip install simpy
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/  
Collecting simpy  
  Downloading simpy-4.0.1-py2.py3-none-any.whl (29 kB)  
Installing collected packages: simpy  
Successfully installed simpy-4.0.1
```

```
import simpy
```

```
def process(env, resource, name):  
    with resource.request() as req:  
        yield req  
        print(f'{name} starts using resource at {env.now}')  
        yield env.timeout(1)  
        print(f'{name} releases resource at {env.now}')
```

```
env = simpy.Environment()  
resource = simpy.Resource(env, capacity=2)
```

```
for i in range(5):  
    env.process(process(env, resource, f'Process {i}'))
```

```
env.run()
```

```
Process 0 starts using resource at 0  
Process 1 starts using resource at 0  
Process 0 releases resource at 1  
Process 1 releases resource at 1  
Process 2 starts using resource at 1  
Process 3 starts using resource at 1  
Process 2 releases resource at 2  
Process 3 releases resource at 2  
Process 4 starts using resource at 2  
Process 4 releases resource at 3
```