

PRINCIPLES OF ARTIFICIAL INTELLIGENCE

LABORATORY PROGRAMS

IMPLEMENTATION OF FORWARD CHAINING:

SOURCE CODE:

```
from pyknow import *

class Light(Fact):
    """Info about the traffic light."""
    pass

class RobotCrossStreet(KnowledgeEngine):
    @Rule(Light(color='green'))
    def green_light(self):
        self.declare(Fact(cross=True))

    @Rule(Light(color='red'))
    def red_light(self):
        self.declare(Fact(cross=False))

    @Rule(Fact(cross=True))
    def walk(self):
        print("Walk")

    @Rule(Fact(cross=False))
    def stop(self):
        print("Stop")

engine = RobotCrossStreet()
engine.reset()
engine.declare(Light(color="green"))
engine.run()
```