

(Durable Rules 패키지)

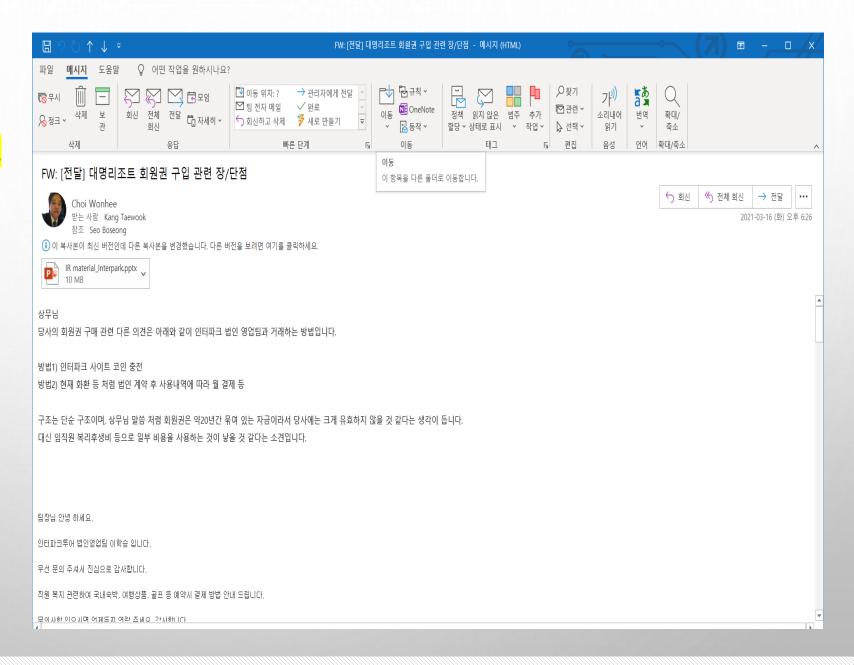
2021. 04. 01

최 원 희



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- 출장비 및 식대 등
- 상여금
- 출장비
- 기타 여비 규정 등





파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨

```
+ 코드 + 텍스트
Q
      [33] !pip install durable rules
             from durable.lang import *
<>
            psum = 0
            dsum = 0
def paySum(pay):
             psum += pay
            def daySum(day):
              dsum += day
              with ruleset('employee'):
               @when all(c.first << (m.predicate == '나는') & (m.object == '휴가를 간다').
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def A(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay100' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day5' })
               @when_all(c.first << (m.predicate == '나는') & (m.object == '휴가를 간다'),
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
                def B(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay50' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day3' })
               @when_all(c.first << (m.predicate == '친구랑') & (m.object == '휴가를 간다'),
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
                def C(c):
\equiv
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay30' })
                   _c_aesert_fact({ 'subject'' c_first_subject_ 'nredicate'' '중가인스' 'nbject'' 'dav2' })
```

🔳 댓글

공유



파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨

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✓ MAR — ✓
      + 코드 + 텍스트
                                                                                                                                                                                🥕 수정 가능
\equiv
       [33]
               @when_all(c.first << (m.predicate == '부모님과 함께') & (m.object == '휴가를 간다'),
Q
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def D(c):
<>
                   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay50' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day3' })
@when all(c.first << (m.predicate == '직장 동료들과 같이') & (m.object == '휴가를 간다').
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def E(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay10' })
                   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day1' })
               @when_all(c.first << (m.predicate == '가족과 함께') & (m.object == '휴가를 간다'),
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def F(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay200' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day5' })
               @when all(c.first << (m.predicate == '아내와 함께') & (m.object == '휴가를 간다').
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def G(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay30' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day2' })
               @when all(c.first << (m.predicate == '혼자') & (m.object == '출장을 간다').
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def H(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '촐장비', 'object': 'pay10' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '출장일수', 'object': 'day2' })
\equiv
```

🔳 댓글

공유



파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨

```
+ 코드 + 텍스트
               def G(c):
       0
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay30' })
Q
                   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day2' })
<>
               @when all(c.first << (m.predicate == '혼자') & (m.object == '출장을 간다'),
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def H(c):
c.assert_fact({ 'subject': c.first.subject, 'predicate': '출장비', 'object': 'pay10' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '촐장일수', 'object': 'day2' })
               @when all(c.first << (m.predicate == '(임원과') & (m.object == '출장을 간다'),
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def (c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '촐장비', 'object': 'pay30' })
                   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장일수', 'object': 'day1' })
               @when all(c.first << (m.predicate == '팀 전체') & (m.object == '출장을 간다').
                         (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
               def J(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '출장비', 'object': 'pay100' })
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '촐장일수', 'object': 'day5' })
               @when all(c.first << (m.predicate == '점심식대를 지급한다') & (m.object == '식대'))
               def K(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '식대', 'object|': 'pay1' })
               @when all(c.first << (m.predicate == '팀 전체') & (m.object == '회식이다'))
               def L(c):
                   c.assert_fact({ 'subject': c.first.subject, 'predicate': '회식대', 'object': 'pay10' })
\equiv
               @when_any(c.first << (m.predicate == '나는') & ((m.object == '팀장이다') | (m.object == '매니저다')))
```

@when any((m.object == 'point'))

@when_any((m.object == 'coupon'))

def point(c):

def coupon(c):

 \equiv

psum += 30

파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨 + 코드 + 텍스트 det pay15(c): [33] print('Fact: {0}에게 {1}은 15만원을 지급한다'.format(c.m.subject, c.m.predicate)) Q psum += 15 @when any((m.object == 'day10')) <> def day6(c): print('Fact: {0}에게 {1}는 5일 및 휴가비를 지급합니다'.format(c.m.subject, c.m.predicate)) dsum += 10 @when_any((m.object == 'day6')) def day6(c): print('Fact: {0}에게 {1}는 6일 입니다'.format(c.m.subject, c.m.predicate)) dsum += 6 @when_any((m.object == 'day2')) def day2(c): print('Fact: {0}에게 {1}는 2일 입니다'.format(c.m.subject, c.m.predicate)) daySum(2) @when_any((m.object == 'day1')) def day1(c): print('Fact: {0}에게 {1}는 1일 입니다'.format(c.m.subject, c.m.predicate)) dsum += 1

> nrint('Fact: {0}에게 {1}에는 범인 차량옥 지금하다' format(c m subject c m nredicate)) • 호수 오후 4세이에 안르되

print('Fact: {0}에게 {1}에는 복지포인트 30만원을 지급한다'.format(c.m.subject, c.m.predicate))

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SEARCH STACK OVERELOW

🔳 댓글

고유

원:

파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨 + 코드 + 텍스트 🥕 수정 가능 Requirement already satisfied: durable rules in /usr/local/lib/python3.7/dist-packages (2.0.28) Q ↑ ↓ ⊖ 🗏 🔅 🗓 📋 🅟 assert_fact('employee', { 'subject': '최원희', 'predicate': '팀장이다', 'object': '휴가를 간다' }) assert_fact('employee', { 'subject': '최원희', 'predicate': '나는', 'object': '팀장이다' }) assert_fact('employee', { 'subject': '최원희', 'predicate': '팀전체', 'object': '회식이다' }) assert_fact('employee', { 'subject': '최원희', 'predicate': '상여금', 'object': '연말 성과 보너스' }) assert_fact('employee', { 'subject': '최원희', 'predicate': '가족과 함께', 'object': '휴가를 간다' }) assert fact('employee', { 'subject': '최원희', 'predicate': '임원과', 'object': '총장을 간다' }) print(("팀장이 받는 총액은 {0}만원이며, 연차외의 총 경조휴무일은 {1}일 입니다".format(psum, dsum)) MessageNotHandledException Traceback (most recent call last) <ipython-input-47-69f5cafa4db3> in <module>() ----> 1 assert_fact('employee', { 'subject': '최원희', 'predicate': '팀장이다', 'object': '휴가를 간다' }) 2 assert_fact('employee', { 'subject': '최원희', 'predicate': '나는', 'object': '팀장이다' }) 3 assert_fact('employee', { 'subject': '최원희', 'predicate': '팀전체', 'object': '회식이다' }) 4 assert_fact('employee', { 'subject': '최원희', 'predicate': '상여금', 'object': '연말 성과 보너스' }) 5 assert_fact('employee', { 'subject': '최원희', 'predicate': '가족과 함께', 'object': '휴가를 간다' }) 2 4 frames /usr/local/lib/python3.7/dist_packages/durable/engine.py in _handle_result(self, result, message) 326 def handle result(self, result, message): if result[0] == 1: 327 --> 328 raise MessageNotHandledException(message) 329 elif result[0] == 2: 330 raise MessageObservedException(message)

MessageNotHandledException: {'subject': '최원희', 'predicate': '팀장이다', 'object': '휴가를 간다'}

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소
스
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```
!pip install durable rules
 from durable.lang import *
psum = 0
dsum = 0
def paySum(pay):
 psum += pay
def daySum(day):
 dsum += day
 with ruleset('employee'):
   @when all(c.first << (m.predicate == '나는') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀창이다') & (m.subject == c.first.subject))
   def A(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay100' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day5' })
   @when all(c.first << (m.predicate == '나는') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
   def B(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay50' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day3' })
   @when all(c.first << (m.predicate == '친구랑') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
   def C(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay30' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day2' })
   @when all(c.first << (m.predicate == '부모님과 함께') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
   def D(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay50' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가일수', 'object': 'day3' })
   @when all(c.first << (m.predicate == '직장 동료들과 같이') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
   def E(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay10' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day1' })
   @when all(c.first << (m.predicate == '가족과 함께') & (m.object == '휴가를 간다'),
             (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
   def F(c):
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay200' })
       c.assert fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day5' })
```

```
@when all(c.first << (m.predicate == '아내와 함께') & (m.object == '휴가를 간다'),
          (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
def G(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'pay30' })
   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴일일수', 'object': 'day2' })
@when all(c.first << (m.predicate == '혼자') & (m.object == '출장을 간다'),
          (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
def H(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장비', 'object': 'pay10' })
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장일수', 'object': 'day2' })
@when all(c.first << (m.predicate == '(임원과') & (m.object == '출장을 간다'),
          (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
def I(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장비', 'object': 'pay30' })
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장일수', 'object': 'day1' })
@when all(c.first << (m.predicate == '팀 전체') & (m.object == '출장을 간다'),
          (m.predicate == '나는') & (m.object == '팀장이다') & (m.subject == c.first.subject))
def J(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장비', 'object': 'pay100' })
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장일수', 'object': 'day5' })
@when all(c.first << (m.predicate == '점심식대를 지급한다') & (m.object == '식대'))
def K(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '식대', 'object': 'pay1' })
@when all(c.first << (m.predicate == '팀 전체') & (m.object == '회식이다'))
def L(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '회식대', 'object': 'pay10' })
@when any(c.first << (m.predicate == '나는') & ((m.object == '팀장이다') | (m.object == '매니저다')))
def M(c):
   c.assert fact({ 'subject': c.first.subject, 'predicate': '휴가비', 'object': 'point' })
   c.assert fact({ 'subject': c.first.subject, 'predicate': '출장을 간다', 'object': 'coupon' })
@when any((m.object == 'pay150') & ((m.predicate == '상여급')))
def pay150(c):
   print('Fact: {0}에게 {1}은 150만원을 지급한다{2}'.format(c.m.subject, c.m.predicate, psum))
   psum += 150
   paySum (150)
@when any((m.object == 'pay100') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스')))
def pay100(c):
   print('Fact: {0}에게 {1}은 100만원을 지급한다'.format(c.m.subject, c.m.predicate))
   psum += 100
   paySum (100)
```

```
@when any((m.object == 'pay75') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스')))
 def pay75(c):
     print('Fact: {0}에게 {1}은 75만원을 지급한다'.format(c.m.subject, c.m.predicate))
     psum += 75
 @when any((m.object == 'pay50') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스')))
 def pay50(c):
     print('Fact: {0}에게 {1}은 50만원을 지급한다'.format(c.m.subject, c.m.predicate))
     psum += 50
 @when any((m.object == 'pay30') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스')))
     print('Fact: {0}에게 {1}은 30만원을 지급한다'.format(c.m.subject, c.m.predicate))
     psum += 30
 @when any((m.object == 'pay20') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스') | (m.predicate == '팀장')))
 def pay20(c):
     print('Fact: {0}에게 {1}은 20만원을 지급한다'.format(c.m.subject, c.m.predicate))
     psum += 20
 @when any((m.object == 'pay15') & ((m.predicate == '상여금') | (m.predicate == '연말 성과 보너스') | (m.predicate == '팀장')))
 def pay15(c):
     print('Fact: {0}에게 {1}은 15만원을 지급한다'.format(c.m.subject, c.m.predicate))
     psum += 15
 @when any((m.object == 'day10'))
 def day6(c):
     print('Fact: {0}에게 {1}는 5일 및 휴가비를 지급합니다'.format(c.m.subject, c.m.predicate))
     dsum += 10
 @when any((m.object == 'day6'))
 def day6(c):
     print('Fact: {0}에게 {1}는 6일 입니다'.format(c.m.subject, c.m.predicate))
     dsum += 6
 @when any((m.object == 'day2'))
 def day2(c):
     print('Fact: {0}에게 {1}는 2일 입니다'.format(c.m.subject, c.m.predicate))
     daySum(2)
 @when any((m.object == 'day1'))
     print('Fact: {0}에게 {1}는 1일 입니다'.format(c.m.subject, c.m.predicate))
     dsum += 1
```

```
소
스
코
드
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```
@when_any((m.object == 'point'))

def point(c):
    print('Fact: {0}에게 {1}에는 복지포인트 30만원을 지급한다'.format(c.m.subject, c.m.predicate))

psum += 30

@when_any((m.object == 'coupon'))

def coupon(c):
    print('Fact: {0}에게 {1}에는 법인 차량을 지급한다'.format(c.m.subject, c.m.predicate))
    psum += 2

#@when_all(+m.subject)
#def output(c):
# print('assert_fact 등록내용: {0} {1} {2}'.format(c.m.subject, c.m.predicate, c.m.object))
```