

JOBSHEET-07

KECERDASAN BUATAN

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PROGRAM STUDI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
NOVEMBER 2020

1. Tambahkan beberapa rule dan fakta awal untuk program di atas. Misalkan tambahkan fakta:
 - a. sapi adalah mamalia.
 - b. Mamalia adalah menyusui

Jawaban:

Menambahkan 2 fakta dan membuat rule pada program.

```
In [1]: global facts
global is_changed

is_changed = True
facts = [{"vertebrate", "duck"}, {"flying", "duck"}, {"mammal", "cat"}, {"sapi", "mamalia"}, {"mamalia", "manyusui"}]

def assert_fact(fact):
    global facts
    global is_changed
    if not fact in facts:
        facts += [fact]
        is_changed = True
while is_changed:
    is_changed = False
    for A1 in facts:
        if A1[0] == "mammal":
            assert_fact(["vertebrate", A1[1]])
        if A1[0] == "vertebrate":
            assert_fact(["animal", A1[1]])
        if A1[0] == "vertebrate" and ["flying", A1[1]] in facts:
            assert_fact(["bird", A1[1]])
        if A1[0] == "sapi":
            assert_fact(["sapi", A1[1]])

print(facts)
```

Output:

```
[['vertebrate', 'duck'], ['flying', 'duck'], ['mammal', 'cat'], ['sapi', 'mamalia'], ['mamalia', 'manyusui'], ['animal', 'duck'], ['bird', 'duck'], ['vertebrate', 'cat'], ['animal', 'cat']]
```