

Lab6 – Entailment Output

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```
In [8]: #Test 1
input_rules()
ans = entailment()
if ans:
    print("The Knowledge Base entails query")
else:
    print("The Knowledge Base does not entail query")
```

```
Enter rule: ( $\sim q \vee \sim p \vee r$ ) $^{\wedge}(\sim q \wedge p) \wedge q$ 
Enter the Query: r
*****Truth Table Reference*****
kb alpha
*****
False True
-----
False False
-----
False True
-----
False False
-----
False True
-----
False False
-----
False True
-----
False False
-----
The Knowledge Base entails query
```

```
In [9]: #Test 2
input_rules()
ans = entailment()
if ans:
    print("The Knowledge Base entails query")
else:
    print("The Knowledge Base does not entail query")
```

```
Enter rule:  $(p \vee q) \wedge (\sim r \vee p)$ 
Enter the Query:  $p \wedge r$ 
*****Truth Table Reference*****
kb alpha
*****
True True
-----
True False
-----
The Knowledge Base does not entail query
```