ĐẠI HỌC QUỐC GIA TP.HÒ CHÍ MINH TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN KHOA CÔNG NGHỆ THÔNG TIN

-----o0o-----



FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

LAB 2: LOGIC

Lecture: Bùi Tiến Lên

TA: Nguyễn Thái Vũ

INDEX

Content

I	ND	EX	2
Α. 9	Stuc	dent's information:	3
В. ⁻	Test	case:	3
1	l.	Input and output 1:	3
2	2.	Input and output 2	4
3	3.	Input and output 3:	4
2	1.	Input and output 4:	5
5	5.	Input and output 5:	5
C. F	Pros	and Cons of propositional logic:	6
1	l.	Pros:	6
2	2.	Cons:	6

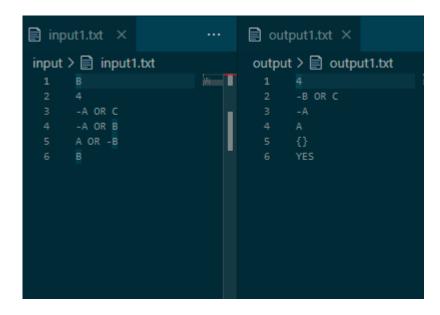
A. Student's information:

• Name: Đặng Ngọc Tiến

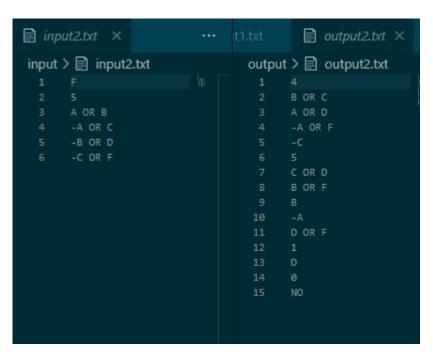
• ID: 20127641

B. Test case:

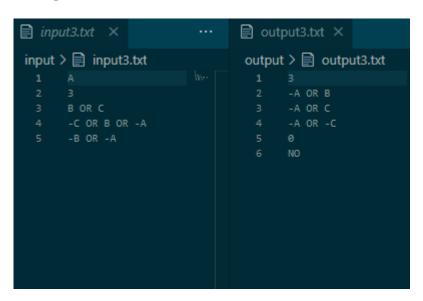
1. Input and output 1:



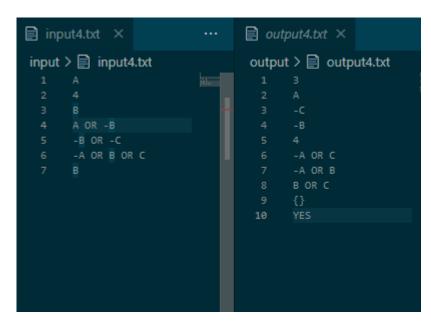
2. Input and output 2



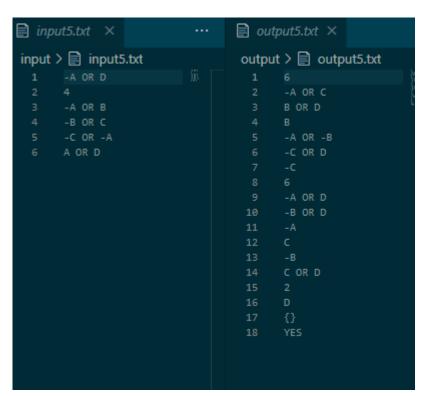
3. Input and output 3:



4. Input and output 4:



5. Input and output 5:



C. Pros and Cons of propositional logic:

1. Pros:

- Propositional logic is declarative: pieces of syntax correspond to facts
- Propositional logic allows partial/disjunctive/negated information
- Propositional logic is compositional
- Meaning in propositional logic is context-independent

2. Cons:

• Propositional logic has very limited expressive power.

E.g., Cannot say "pits cause breezes in adjacent squares" except by writing on sentence for each square.