Εργασία 1

Η γραμματική:

```
GOAL → EXPRESSION
EXPRESSION → TERM REST_EXPRESSION
REST_EXPRESSION → + TERM REST_EXPRESSION | - TERM REST_EXPRESSION | ε
TERM → FACTOR REST_TERM
REST_TERM \rightarrow * FACTOR REST_TERM | / FACTOR REST_TERM | \epsilon
FACTOR \rightarrow [0-9] \mid (EXPRESSION)
                                      Tα FIRST
FIRST(GOAL) = \{ [0-9], ( \}
FIRST(EXPRESSION) = \{ [0-9], ( \} \}
FIRST(REST\_EXPRESSION) = \{ +, -, \epsilon \}
FIRST(TERM) = \{ [0-9], ( \} \}
FIRST(REST\_TERM) = \{ *, /, \epsilon \}
FIRST(FACTOR) = \{ [0-9], ( \}
                                     Ta FOLLOW
FOLLOW(GOAL) = { EOF }
FOLLOW(EXPRESSION) = { EOF , ) }
FOLLOW(REST_EXPRESSION) = { EOF , ) }
FOLLOW(TERM) = \{ +, -, EOF, \}
FOLLOW(REST\_TERM) = \{ +, -, EOF, \}
FOLLOW(FACTOR) = { +, -, *, /, EOF, ) }
               Τα FIRST+ για τους κανόνες που το FIRST τους περιέχει το ε.
FIRST+(REST_EXPRESSION) = { + , - , EOF, ) }
FIRST+(REST_TERM) = { * , / , + , - , EOF , ) }
```

To Lookahead Table

	+,-	*,/	()	[0-9]	EOF
EXPRESSION	Error	Error	TERM REST_EXPRESSION	Error	TERM REST_EXPRESSION	Error
REST_EXPRESSION	TERM REST_EXPRESSION	Error	Error	ε	Error	ε
TERM	Error	Error	FACTOR REST_TERM	Error	FACTOR REST_TERM	ε
REST_TERM	ε	FACTOR REST_TERM	Error	ε	Error	ε
FACTOR	Error	Error	EXPRESSION)	Error	Nothing	Error