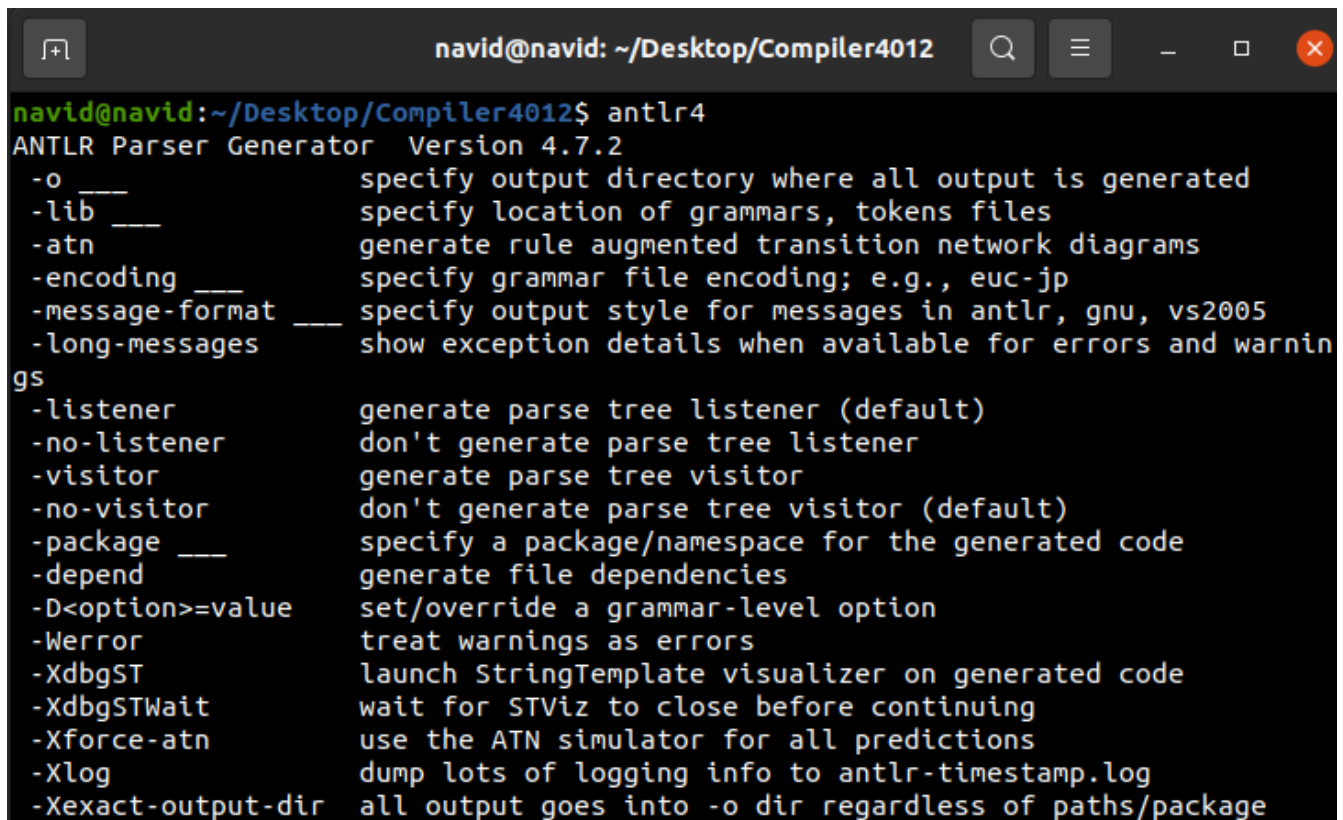


سوال ۱:

نکته: مراحل انجام کار در لینوکس انجام شده است.

مرحله اول: نصب antlr

```
sudo apt install antlr4
```



```
navid@navid: ~/Desktop/Compiler4012
navid@navid:~/Desktop/Compiler4012$ antlr4
ANTLR Parser Generator Version 4.7.2
-o ____          specify output directory where all output is generated
-lib ____        specify location of grammars, tokens files
-atn             generate rule augmented transition network diagrams
-encoding ____   specify grammar file encoding; e.g., euc-jp
-message-format ____ specify output style for messages in antlr, gnu, vs2005
-long-messages   show exception details when available for errors and warnin
gs
-listener        generate parse tree listener (default)
-no-listener     don't generate parse tree listener
-visitor         generate parse tree visitor
-no-visitor      don't generate parse tree visitor (default)
-package ____    specify a package/namespace for the generated code
-depend          generate file dependencies
-D<option>=value set/override a grammar-level option
-Werror         treat warnings as errors
-XdbgST         launch StringTemplate visualizer on generated code
-XdbgSTWait     wait for STViz to close before continuing
-Xforce-atn     use the ATN simulator for all predictions
-Xlog           dump lots of logging info to antlr-timestamp.log
-Xexact-output-dir all output goes into -o dir regardless of paths/package
```

مرحله دوم:

```
pip install antlr4-python3-runtime
```

Grun:

