%option noyywrap

%{

#include<stdio.h>

#include "y.tab.h"

#include<string.h>

%}

lettre [A-Za-z]

digit [0-9]

alphanum {lettre}|{digit}

regularverbs ("ktb"|"chrb"|"3rf"|"l3b"|"rsm "|"n3ss"|"lbss"|"glss"|"dkhl"|"khrj"|"rj3"|"tfrrj"|"st3ml"|"fhm"|"khdm"|"drb"|"w9f"|"wsl"|"sm3"|"swl"|"safr"|"3awn"|"sift"|"ghssl"|"tklm")

masculinsubject ("huwa")

femininsubject ("hiya")

pluralmasculinsubject ("homa")

pluralfemininsubject ("homaa")

masculinadjectifs ("mzyan"|"khayb"|"frнan "|"mqllq"|"nqi"|"mussx "|"mzrub"|"m3̣ṭl"|"rṭb"|"нrch"|"byd"|"k7l"|"zr9"|"rmadi"|"m39ol"|"kafi"|"machghol"|"3iyan"|"jdid"|"twil"|"9ssir"|"d3if"|"ghlid"|"sahl"|"s3ib"|"ghlid"|"r9i9"|"mrid"|"s7i7")

question ("chkoun"|"chno"|"achmn"|"fin"|"kifach"|"mnin"|"imta"|"3lach")

timeadverbs ("tnin"|"tlat"|"larb3"|"khmiss"|"jm3a"|"sbt"|"7d"|"lyum"|"chhr"|"3am")

presenttense ("dima"|"yawmiyan"|"daba")

negadverbs ("walo")

%%

"ana" return ANA ;

"nta" return NTA;

"nti" return NTI;

"нna" return HNA;

"ntuma" return NTUMA;

({masculinadjectifs}a) return ADJF;

({masculinadjectifs}in) return ADJMP;

({masculinadjectifs}at) return ADJFP;

{regularverbs} return VERBR;

{masculinsubject} return SUBM;

{femininsubject} return SUBF;

{pluralmasculinsubject} return SUBMP;

{pluralfemininsubject} return SUBFP;

{masculinadjectifs} return ADJ ;

{question} return QUEST;

{timeadverbs} return TADV;

{presenttense} return PRADV;

{negadverbs} return NADV;

(ghadi(" ")(n{regularverbs})) {return ANAF;printf("yess");}

(ghadi(t{regularverbs})) return NTAF;

(ghadi(t{regularverbs})i) return NTIFF;

(ghadi(y({regularverbs}))) return HOWAF;

(ghadi(te({regularverbs}))) return HIYAF;

(ghadi(n({regularverbs})u)) return HNAF;

(ghadi(t({regularverbs})u)) return NTOMAF;

(ghadi(y({regularverbs})u)) return HOMAF;

(ma({regularverbs})tch) return ANANTAN;

(ma({regularverbs})tich) return HOWAN ;

(ma({regularverbs})atch) return HIYAN ;

(ma({regularverbs})nach) return HNAN ;

(ma({regularverbs})toch) return NTOMAN ;

(ma({regularverbs})och) return HOMAN ;

kan{regularverbs} return ANAPR;

kat{regularverbs} return NTAPR;

(kat{regularverbs}i) return NTIPR;

(kay({regularverbs})) return HOWAPR;

(kate{regularverbs}) return HIYAPR;

(kan({regularverbs})u) return HNAPR;

(kat{regularverbs}u) return NTOMAPR;

(kay({regularverbs})u) return HOMAPR;

(({regularverbs})t) return ANAP;

({regularverbs}ti) return NTAP;

({regularverbs}at) return HIYAP;

({regularverbs}na) return HNAP;

({regularverbs}tu) return NTOMAP;

({regularverbs}u) return HOMAP;

({regularverbs}i) return IMPF;

({regularverbs}o) return IMPP;

("ghda"|(({timeadverbs})lijay)|(had({timeadverbs}))) return FADV;

(({timeadverbs}lifat)|(dakl{timeadverbs})) return PADV;

{digit}+ {yylval.ent = atoi(yytext); return NUM;}

"." return yytext[0];

"?" return PINTERO;

"," return COMMA;

"!" return EXCL;

%%

Yacc

%{

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<ctype.h>

%}

%union { char\* s; int ent;}

%start phrase

%token <s> ANA NTA NTI HNA NTUMA ADJF HIYA ANAPR SUBM PRADV SUBF SUBMP SUBFP ADJ QUEST TADV NADV NTIFF NTAF ANAF HOWAF HOMAN HIYAF HNAF HOMAF NTOMAF ANANTAN NTAPR NTIPR ADJMP HOWAPR ADJFP HIYAPR HNAPR HIYAP HOMAPR ANAP IMPF EXCL NTAP HNAP NTOMAPR NTOMAP HOMAP IMPP COMMA PINTERO PADV FADV VERBR HIYAN HNAN HOMA HOWA HOWAN NTOMA NTOMAN

%token <ent> NUM

%type <s> SVS

%type <s> AFF

%type <s> NEG

%type <s> QUES

%type <s> IMPE

%type <s> SA

%type <s> FUTUR

%type <s> PAST

%type <s> PRESENT

%type <s> SM

%type <s> SF S

%type <s> PF

%type <s> B

%type <s>SUBJ

%type <s> BE

%type <s> BEG

%type <s> E

%type <s> N

%type <s> A

%type <s> O

%%

phrase: AFF {printf("yes");}

|NEG {printf("yes");}

|QUES {printf("yes");}

|IMPE {printf("yes");}

;

AFF: SVS

|SA

;

SVS: FUTUR {printf("yes");}

|PAST

|PRESENT

;

SM: HOWA|SUBM;

SF: HIYA|SUBF;

S: SM|SF;

PF: HOMA|SUBFP|SUBMP;

B: FADV COMMA;

SUBJ: SUBF|SUBFP|SUBM|SUBMP;

FUTUR: B ANA ANAF SUBJ

|B NTA NTAF SUBJ

|B NTI NTIFF SUBJ

|B SM HOWAF SUBJ

|B SF HIYAF SUBJ

|B PF HOMAF SUBJ

|B HNA HNAF SUBJ

|B NTOMA NTOMAF SUBJ

|ANA ANAF SUBJ

|NTA NTAF SUBJ

|NTI NTIFF SUBJ

|SM HOWAF SUBJ

|SF HIYAF SUBJ

|PF HOMAF SUBJ

|HNA HNAF SUBJ

|NTOMA NTOMAF SUBJ

;

BE: PADV COMMA

;

PAST: BE ANA ANAP SUBJ

|BE NTI NTAP SUBJ

|BE NTA NTAP SUBJ

|BE S HIYAP SUBJ

|BE HNA HNAP SUBJ

|BE NTOMA NTOMAP SUBJ

|BE PF HOMAP SUBJ

|ANA ANAP SUBJ

|NTI NTAP SUBJ

|NTA NTAP SUBJ

|S HIYAP SUBJ

|HNA HNAP SUBJ

|NTOMA NTOMAP SUBJ

|PF HOMAP SUBJ

;

BEG: PRADV COMMA

;

PRESENT:BEG ANA ANAPR SUBJ

|BEG NTI NTAPR SUBJ

|BEG NTA NTAPR SUBJ

|BEG S HIYAPR SUBJ

|BEG HNA HNAPR SUBJ

|BEG NTOMA NTOMAPR SUBJ

|BEG PF HOMAPR SUBJ

|ANA ANAPR SUBJ

|NTI NTAPR SUBJ

|NTA NTAPR SUBJ

|S HIYAPR SUBJ

|HNA HNAPR SUBJ

|NTOMA NTOMAPR SUBJ

|PF HOMAPR SUBJ

;

N: NTUMA|HNA|SUBMP|SUBFP;

A: ADJF|ADJ|SUBM|SUBF;

O: ADJMP|ADJFP;

SA: ANA A

|NTA ADJ

|NTI ADJF

|N O

;

E: NADV

;

NEG: ANA ANANTAN SUBJ E

|NTA ANANTAN SUBJ E

|NTI ANANTAN SUBJ E

|SM HOWAN SUBJ E

|SF HIYAN SUBJ E

|PF HOMAN SUBJ E

|HNA HNAN SUBJ E

|NTOMA NTOMAN SUBJ E

|ANA ANANTAN SUBJ

|NTA ANANTAN SUBJ

|NTI ANANTAN SUBJ

|SM HOWAN SUBJ

|SF HIYAN SUBJ

|PF HOMAN SUBJ

|HNA HNAN SUBJ

|NTOMA NTOMAN SUBJ

;

QUES: QUEST VERBR SUBJ PINTERO ;

IMPE: IMPF SUBJ EXCL|IMPP SUBJ EXCL|VERBR SUBJ EXCL;

%%

int main()

{printf("veuillez entrer votre phrase en darija :");

int a=yyparse();

if(a==1)

printf("\n Parsing complete \n ");

else

printf("\n votre phrase est incorrecte syntaxiquement veuillez la corriger \n");

system("pause");

return 0;

}

yyerror(char \*s) {

fprintf(stderr,"%s\n", s );

}