EXPERIMENT No: 2 5/10/23 LEX PROGRAMS (WEYWORDS, UPPERLAGE, VOWELS, COUNT) PIM To implement len poograms to identify keywood, oppurcast words, Howels in a word & vowel count in a world. THEORETICAL BACKGROUND Lon tool is a vital tool in compiler construction Ge ten processing UNI to gete lensel onelyzer or leners. Lenical onalygous break down input strooms into tolkeny which are fondamentals onto a information. These tokens sorve as he lons for subsquart phones of a complier of for tent processive, keeps. Lon programs are stouctured into these section: defention, ander & una defined Controry. In the defention Section, conserts, dobrégos le regular empressions sur declared. The hules settion defulles patterns to metch against The input, & each pattern is associated with actions to be encurred when a motels occurs. Uses-defined quehing Con also be used to whomig the leners behaviour. The core of con's functionality lies in pullon matching one regular enpaission. These expression descade The structure of tolkers be enable to identifies a separte longuez constructs who keywords, identifiers, operators q literals in pragramming longuages. When a pattern metches, on associated action is oneway. This oching typically agult in the action of tolker with allowheres. For enough len con secognist beywood, orign them a type, the provide them to the paint for feather thalyns. Len took de particulous exentical in complex development. They simplying the tasks of creating lovers

ALGORITHM 201 1- Stard 2- Include neuroly healer (ples. 3. Delvine patterns to secognize veywoods, numbers, words & only after that. 4. In he much bution, point a prompt. 5. Involve My lener ('yylen') 6. In the lener, recognize there & point nom 7. If the line arturns, and the prooform S. Stap AHORITHM 2.2 1. Start. 3. Define pultery to accepting would be condowly a. In win Juction, print a prompt. 5. In the lever, decognize vouels by consoned by point thom 6. If the larger suturns, and the program. ALGORITHM 203 3. Define pattern to seagnize small letters be capital letters. 4. In the woin (which, point a proup). 6. In the ceron, secarisis small letters & capital letters & point them 7. 9/ The lene seturn, and the program. 8.5 top ALCOPATHM2.4 2. grubele neurous heuler files le chales courtes for vouels 3. Define patters to reagnific variety, consonerts & neutilité charecters. 4. Savake The lener ("yylen") 5. In the mein Justion, point a prompt. 6.3n the wood, court vowels he consonerts 7. when a newlin is ancountered, port the courts of and the program.

Your parsers use a bottom-up pursey technique, combroeries pourse trees or abstract syntere trees from the imput. These troops parse trees suprespent the structure of the input Congressy, allowing for further processy, optimizeties, or call generation.

The programs were successfully implemented by one cutad.

ALMORITHM 3.1 3. In the len full, define putterns to which nulsons, identifies, whitespans, newline a attended to be putterns to enter to better to be altour a attended to be a source action with Lon patterns to enter to puts be puts be arabuste metherna.

5. In the Yace Julis, specify grammer stules to puts be available metherna. 2- Include the necessary heaters for Lon & Xacc 6. Défine actions with Yacc subs to perform cululation. 7. In the moin Coretion, point a prompt. 8. Invalue the Yacc parker (gy pares) a. Itende ertors unies 'yyatar' function, AGOBITHM 22 AGORITHM 3.2