Date: 08/02/2024

Indian Institute of Technology Patna CS352: PPL and Compiler Lab

Assignment Questions

Time: 3 - 6PM

Question 1: Implement an YACC program to convert base 2 digit to base 10 digit.

Example: Input: 1101 Output: 13

Question 2: Implement a program to construct a symbol table for c source code using Lex and Yacc.

Example:

11 12

17

Input:

#include<stdio.h> #include<string.h> int main() {

int x=1; float f; int a=3;

a = x * 3 + 5; if(x>a) {

printf("Hi!");

a = x * 3 + 100;

x = a * 3 + 98;

printf("Hi!"); a = x * 3 + 100;

x = a * 3 + 100;

Output:

Output.						
SYMBOL	DATATY	/PE	TYPE	LINE	NUMBER	
#includ #includ main x 1 f a 3 5 if printf 100	e <stdio.e<string a="" const="" const<="" float="" int="" n="" td=""><td>.h> Fur Var Cor Var Cor Key Key</td><td>nction riable nstant riable riable nstant</td><td></td><td>Header Header 4 5 6 8 9 10 11 16 21</td><td>0 1</td></stdio.e<string>	.h> Fur Var Cor Var Cor Key Key	nction riable nstant riable riable nstant		Header Header 4 5 6 8 9 10 11 16 21	0 1
FINISNE	a!					