CSE 310 (Compiler Sessional), L-3, T-1, CSE

Sections: **A2**

Online 1 (Syntax and Semantic Analysis)

Total Marks: 20 Time: 30 Mins

Modify your Syntax and Semantic Analyzer so that, It contains the **switch .. case** statements as done in C.

The syntax for **switch .. case** statements is →

```
switch(expression)
{
case const_value1: statements_1;
            break;
case const_value2: statements_2;
            break;
.
.
.
case const_value_n: statements_n;
             break;
default: default_statements;
             break;
}
```

Sample i/o:

Go to the next page …

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Input:

Input.c:

```
int foo(int x,int y,int z) {
    return x+y+z;
}

int main(){
    int a,b;
    switch (foo(1,2,3)) {
        case 1:
            a = 1;
            b = a+1;
            break;
        case 2:
            a = 2;
            b = a+3;
            break;
        default:
            a = 0;
            b = a;
            break;
    }
}
```

Output:

parsetree.txt:

Will contain the parse tree without any error.