

PRACTICAL SHEET – 2
Compiler Construction
(CS 015)

Faculty: Karamjit Cheema

Write a program in C that uses *regular expressions* and *finite automata* to model the scanning process.

Hint

```
int scanner()
{
char ch;
while (TRUE)
{

ch = NextChar( );
state_1:
switch (ch) {      /* initial state */
    case 'a' : goto state_2;
    case 'b' : goto state_3;
    default : Error();
}

state_2: ...

state_3:
    switch (ch) {
        case 'a' : goto state_2;
        default : return SUCCESS;
    }
} // while ends
}
```

