	Nance: Sangest Agrawd, PRN: 210 70122140: CS-83 (2021-25)
	Practical No. 4
	Tille 6
*	Title: Conversion of lowercose to appearance
	Title: Conversion of lowerrose to appearance
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*	Olijestives: Students mill learn and implement -> Scanner for lowercase to uppercase conversion: -> ASCII ranges to be included in the LEX program for the said conversion
	-> Scanner for lowercase to uppersone
-	conversion.
	- ASCII ranges to be included in the
	LEX program for the said conversion
	Description:
	i) Create a LEX file first.
	ii) Write RE's for lowercose, uppercose and spaces.
	lowersage to uppercase, vice versa using ASCII ranges.
	lowersage to uppercose, vine veros using
	ASCII ranges.
	IV/ In Pules, section emit spaces and other non-
	IV) In Pules, section emit spaces and other non- required details as it is.
	v) In the main body call fylen () and eneate the scanner for required conversion.
	scanner for required conversion.
*	Condusion: Thus, we have implemented a Scanner
	Condusion: Thus, we have implemented a Scauner for the Somerion to oppercose conversion and vice werso.
	vice verya
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```
Code:
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```
%{
#include <stdio.h>
#include <ctype.h>
%}
alpha [a-zA-Z]
digit [0-9]
space [ \t\n]
%%
{alpha} {
    // Convert lowercase to uppercase and uppercase to lowercase
    if (islower(yytext[0])) {
        printf("%c", toupper(yytext[0]));
    } else {
        printf("%c", tolower(yytext[0]));
    }
}
{space} {
    // Print spaces as they are
    printf("%s", yytext);
}
{digit} {
    // Print digits as they are
    printf("%s", yytext);
}
%%
int main(int argc, char **argv) {
    if (argc > 1) {
        FILE *file = fopen(argv[1], "r");
        if (file) {
            yyin = file;
            yylex();
            fclose(file);
        } else {
            perror("fopen");
            return 1;
```

```
}
} else {
    fprintf(stderr, "Usage: %s <filename>\n", argv[0]);
    return 1;
}
return 0;
}
int yywrap() {
    return 1;
}
```

Output:

