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1.) Noun/Verb

```
%{
#include <stdio.h>
}%

%%
"Rama"      { printf("\nNoun"); }
"Sita"      { printf("\nNoun"); }
"Neha"      { printf("\nNoun"); }

"Sings"     { printf("\nVerb"); }
"Dances"    { printf("\nVerb"); }
%%

int main()
{
    yylex();
    return 0;
}

int yywrap()
{
    return 1;
}
```

Output:

```
[cdlab309@CSELABServer2 2023006226]$ vi test1.1
[cdlab309@CSELABServer2 2023006226]$ lex test1.1
[cdlab309@CSELABServer2 2023006226]$ cc lex.yy.c
[cdlab309@CSELABServer2 2023006226]$ ./a.out
Rama

Noun
Sings

Verb
Rama Sings

Noun
Verb
```

2.) Valid Email Checker

```
%{
#include <stdio.h>
int flag = 0;
}%

%%
[a-zA-Z0-9]+@[a-zA-Z]+(\.com|\.in)    { flag = 1; }

\n  {
    if(flag == 1)
        printf("Accepted\n");
    else
        printf("Rejected\n");
    flag = 0;
}

%%

int main()
{
    yylex();
    return 0;
}

int yywrap()
{
    return 1;
}
```

Output:

```
[cdlab309@CSELABServer2 2023006226]$ lex email.l
[cdlab309@CSELABServer2 2023006226]$ cc lex.yy.c
[cdlab309@CSELABServer2 2023006226]$ ./a.out
kdahal@gitam.in
Accepted
kaushal
kaushalRejected
```

3.) Valid Identifier

```
%{
#include <stdio.h>
int flag = 0;
}%

%%
[A-Za-z_][A-Za-z0-9_]*    { flag = 1; }

\n {
    if(flag == 1)
        printf("\nValid Identifier\n");

    else
        printf("\nInvalid Identifier\n");
    flag = 0;
}

%%

int main()
{
    yylex();
    return 0;
}

int yywrap()
{
    return 1;
}
```

Output:

```
[cdlab309@CSELABServer2 2023006226]$ lex identifier.l
[cdlab309@CSELABServer2 2023006226]$ cc lex.yy.c
[cdlab309@CSELABServer2 2023006226]$ ./a.out
kaushal
Valid Identifier
6226
6226
Invalid Identifier
```

