

# ASSIGNMENT NO. 3

## Question 1)

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

/* Rules Section*/
%%
([a-zA-Z0-9])*      {i++;} /* Rule for counting
                        number of words*/

"\n" {printf("%d\n", i); i = 0;}
%%

int yywrap(void){}

int main()
{
    // The function that starts the analysis
    yylex();

    return 0;
}
```

## Question 2)

```
%{
    /* Definition section */
}%

/* Rule Section */
%%

[1-9][0-9]{9} {printf("\nMobile Number Valid\n");}

.+ {printf("\nMobile Number Invalid\n");}

%%

// driver code
int main()
{
    printf("\nEnter Mobile Number : ");
    yylex();
    printf("\n");
    return 0;
}
```

## Question 3)

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

    / rule section % %
    // regex for valid identifiers
    ^[a - z A - Z _][a - z A - Z 0 - 9 _] *
printf("Valid Identifier");

// regex for invalid identifiers
^[^a - z A - Z _] printf("Invalid Identifier");
.;
% %

    main()
{
    yylex();
}
```