Department of Computer Science and Engineering

National Institute of Technology, Rourkela

Course Code: CS3075   **Course Name:** Compiler Design Laboratory

Date:

Assignment No.:4

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QUESTION 2

CODE

```
/* just like Unix wc */
%{
#include<stdio.h>
%}
%%

".----" {printf("1 ");}
"..---" {printf("2 ");}
"...--" {printf("3 ");}
"....-" {printf("4 ");}
"....." {printf("5 ");}
"-...." {printf("6 ");}
"--..." {printf("7 ");}
"---.." {printf("8 ");}
"----." {printf("9 ");}
"-----" {printf("0 ");}
".-"   {printf("A ");}
"-..." {printf("B ");}
"-.-." {printf("C ");}
```

```
"-.."   {printf("D ");}
"."     {printf("E ");}
".-."   {printf("F ");}
"--."   {printf("G ");}
"...."  {printf("H ");}
".."    {printf("I ");}
".---"  {printf("J ");}
"-.-"   {printf("K ");}
".-.."  {printf("L ");}
"--"    {printf("M ");}
"-."    {printf("N ");}
"---"   {printf("O ");}
".--."  {printf("P ");}
"--.-"  {printf("Q ");}
".-."   {printf("R ");}
"..."   {printf("S ");}
"-"     {printf("T ");}
"..-"   {printf("U ");}
"...-"  {printf("V ");}
".--"   {printf("W ");}
"-..-"  {printf("X ");}
"-.--"  {printf("Y ");}
"--.."  {printf("Z ");}

%%

int main(int argc, char **argv)
{
yylex();
return 0;
}
```

QUESTION 1

CODE

```
%{
#include<stdio.h>
%}
%%
(H[1-9]*[,]+|C[1-9]*[,]+|N[1-9]*[,]+|O[1-9]*[,]+|S[1-9]*[,]+|SI[1-9]*[,]+|CL[1-9]*[,]+|SN[1-9]*[,]+)+(H[1-9]*|C[1-9]*|N[1-9]*|O[1-9]*|S[1-9]*|SI[1-9]*|CL[1-9]*|SN[1-9]*)$ {printf("\nCompound Match");}
.\n {printf("\nCompound Not Match");}
%%
int main(int argc,char **argv)
{
yylex();
return 0;
}
```