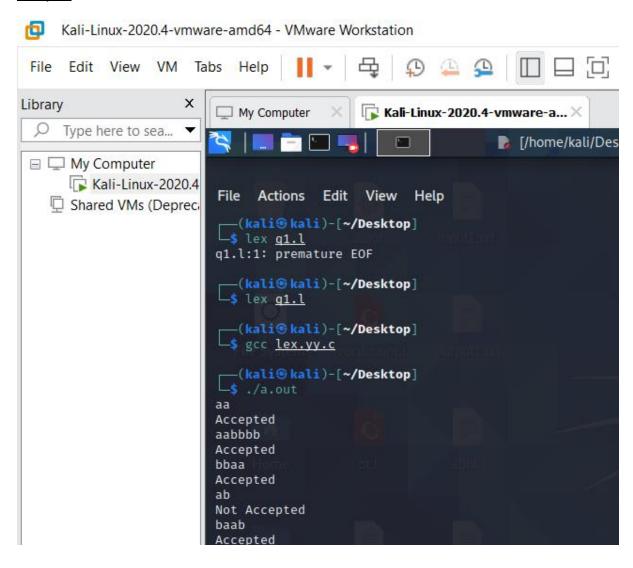
```
NAME = DEVYANSH SAINI
SECTION = A
ROLL NO. = 26
UNIVERSITY ROLL NO. = 2013308
Program 1.
%{
%}
%s A B
%%
<INITIAL>b BEGIN INITIAL;
<INITIAL>a BEGIN A;
<INITIAL>[^a|\n] BEGIN B;
<INITIAL>\n BEGIN INITIAL; printf("Accepted\n");
<A>b BEGIN A;
<A>a BEGIN INITIAL;
<A>[^a|^n] BEGIN B;
<A>\n BEGIN INITIAL; printf("Not Accepted\n");
<B>a BEGIN B;
<B>b BEGIN B;
<B>\N {BEGIN INITIAL; printf("INVALID\n");}
%%
int yywra()
```

```
{
return 1;
}
void main()
{
yylex();
}
```

Output

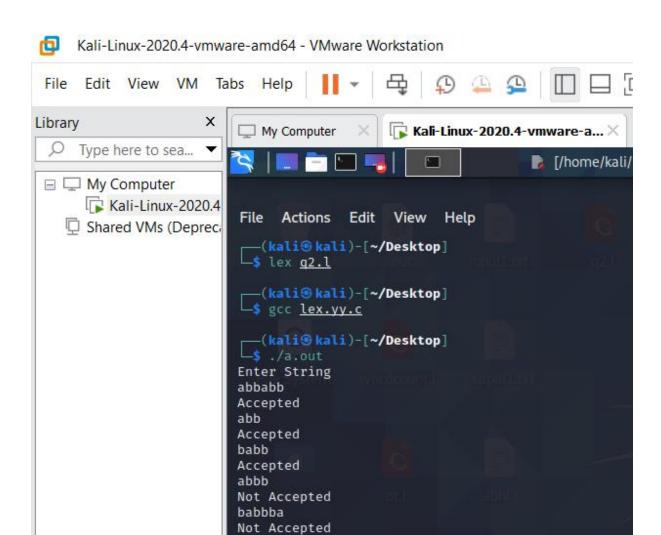


```
Program 2.
%{
%}
%s A B C D E F G DEAD
%%
<INITIAL>a BEGIN A;
<INITIAL>b BEGIN INITIAL;
<INITIAL>[^ab\n] BEGIN DEAD;
<INITIAL>\n BEGIN INITIAL;{printf("Not Accepted\n");}
<A>b BEGIN E;
<A>a BEGIN B;
<A>b[^ab\n] BEGIN DEAD;
<A>\n BEGIN INITIAL;{printf("Not Accepted\n");}
<B>b BEGIN G;
<B>a BEGIN C;
<B>b[^ab\n] BEGIN DEAD;
<B>\n BEGIN INITIAL;{printf("Not Accepted\n");}
```

```
<C>a BEGIN C;
<C>b BEGIN G;
<C>[^ab\n] BEGIN DEAD;
<C>\n BEGIN INITIAL;{printf("Accepted\n");}
<D>a BEGIN A;
<D>b BEGIN INITIAL;
<D>[^ab\n] BEGIN DEAD;
<D>\n BEGIN INITIAL;{printf("Accepted\n");}
<E>a BEGIN F;
<E>b BEGIN D;
<E>[^ab\n] BEGIN DEAD;
<E>\n BEGIN INITIAL;{printf("Not Accepted\n");}
<F>a BEGIN B;
<F>b BEGIN E;
<F>[^ab\n] BEGIN DEAD;
<F>\n BEGIN INITIAL;{printf("Accepted\n");}
<G>a BEGIN F;
<G>b BEGIN D;
<G>[^ab\n] BEGIN DEAD;
```

```
<G>\n BEGIN INITIAL;{printf("Accepted\n");}
<DEAD>[^\n] BEGIN DEAD;
<DEAD>\n BEGIN INITIAL;{printf("Invalid\n");}
%%
int yywrap()
{
      return 0;
}
int main()
{
      printf("Enter String\n");
      yylex();
      return 0;
}
```

<u>Output</u>



```
Program 3.
%{
%}
%s A B C D DEAD
%%
<INITIAL>[0-9] BEGIN A;
<INITIAL>[a-z] BEGIN D;
<INITIAL>[A-Z] BEGIN D;
<INITIAL>_ BEGIN D;
<INITIAL>[^a-zA-Z0-9\n_] BEGIN DEAD;
<INITIAL>\n BEGIN INITIAL;{printf("Not Accepted\n");}
<A>[0-9] BEGIN A;
<A>. BEGIN B;
<A>b[^0-9.\n] BEGIN DEAD;
<A>\n BEGIN INITIAL;{printf("Integer\n");}
<B>[0-9] BEGIN C;
<B>[^0-9] BEGIN DEAD;
<B>\n BEGIN INITIAL;{printf("Not Accepted\n");}
```

```
<D>[a-z] BEGIN D;
<D>[A-Z] BEGIN D;
<D>[0-9] BEGIN D;
<D>_ BEGIN D;
<D>[^a-zA-Z0-9\n_] BEGIN DEAD;
<D>\n BEGIN INITIAL;{printf("Identifier\n");}
<C>[0-9] BEGIN C;
<C>[^0-9\n] BEGIN DEAD;
<C>\n BEGIN INITIAL;{printf("Float\n");}
<DEAD>[^\n] BEGIN DEAD;
<DEAD>\n BEGIN INITIAL;{printf("Invalid\n");}
%%
int yywrap()
{
     return 0;
}
int main()
```

```
{
    printf("Enter String\n");
    yylex();
    return 0;
}
```

Output

Kali-Linux-2020.4-vmware-amd64 - VMware Workstation

