

Department Of Computer Science Engineering

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT

(An Institute of National Importance)

CD Lab

Sub Code - UCS 066

Submitted To

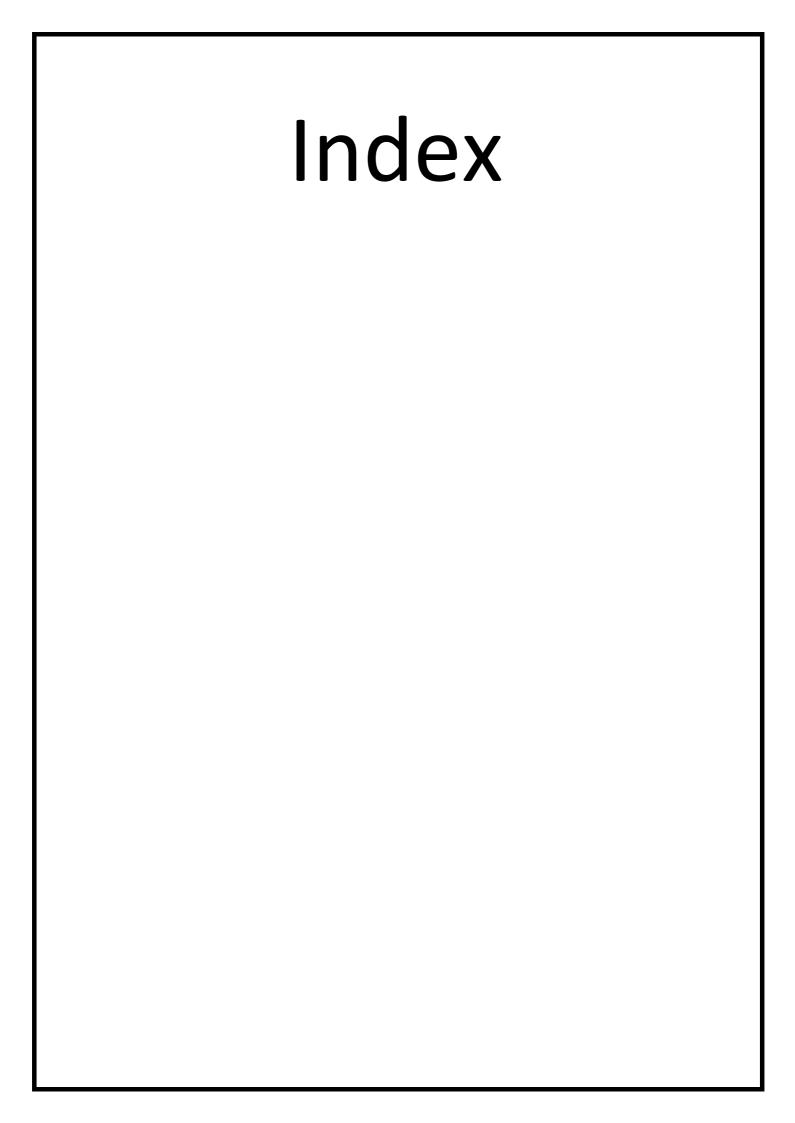
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CSE A



Lab 1 Q. Validate the arithmetic expression

```
#include<iostream>
#include <regex>
using namespace std;
int main(){
  int validty = 1;
  string exp;
  regex valid("[[+-/*]*[0-9]*]*");
   cout<<"enter the string : ";</pre>
   cin>>exp;
   if(exp[exp.size()-1] == '+' | | exp[exp.size()-1] == '-' | | exp[exp.size()-1]
=='/'||exp[exp.size()-1] =='*'){
     cout<<"invalid expression";
     validty == 0;
     return 0;
   }
     for(int i = 1; i < \exp.size()-1; i++){
       if(validty == 0) break;
     if(exp[i]=='/' || exp[i] == '*' || exp[i]=='-' || exp[i] == '+'){
       if(exp[i+1]=='/' || exp[i+1] == '*'){
          cout<<"invalid expression";</pre>
          return 0;
       }
    }
   cout<<"valid expression";</pre>
  return 0;
}
```

```
PS D:\Coding> cd "d:\Coding\cdLab\"; if ($?) { g++ cdLab1.cpp -o cdLab1 }; if ($?) { .\cdLab1 }
enter the string: 3+/4
invalid expression

PS D:\Coding\cdLab>  

PS D:\Coding\cdLab\"; if ($?) { g++ cdLab1.cpp -o cdLab1 }; if ($?) { .\cdLab1 }
enter the string: /3+2-8
invalid expression

PS D:\Coding\cdLab>  

PS D:\Codi
```