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# LEXICAL ANALYZER USING FLEX

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Test Cases:

Testcase 1:

```
#include<stdio.h>

#define A 5

int add(int a, int b)
{
return (a+b);
}

void main()
{
/* Normal comments*/
int a,b;
a=5;
b=a;
a=add(a,b);
}
```

Contains pre-processor statements, keyword, identifiers, integers, punctuators, whatever is inside the comments it will be rejected, external functions.

Testcase 2:

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
float a,b,c,e;
```

```
char d[10] = "Hello";
```

```
a=5.3;
```

```
b=2.65;
```

```
c=a+b;
```

```
scanf("%f",&e);
```

```
if(e>5.0)
```

```
printf("%f",c);
```

```
else if(e<5.0)
```

```
printf("%s",d);
```

```
else
```

```
printf("Nothing");
```

```
}
```

Contains operators, strings, inbuilt functions like printf and scanf, format specifiers, conditional statements.

Testcase 3:

```
#include<stdio.h>
```

```
struct values
```

```
{
```

```
int cd;
```

```
};
```

```
void main()
```

```
{
```

```
long long float d,c=0;
```

```
struct values v;
```

```
int i=3;
```

```
v.cd=5;
```

```
scanf("%lld",&d);
```

```
while(d--)
```

```
{
```

```
    c++;
```

```
}
```

```
while(i--)
```

```
{
```

```
    while(d>0)
```

```
    {
```

```
        d--;
```

```
        v.cd++;
```

```
    }
```

```
}
```

```
Printf("%lf",c);  
}
```

Contains Loop statements and operators, structure.

Testcase 4:

```
#include<stdio.h>  
Void main()  
{  
/*Nested /* comments. */ This is error*/  
char a[10] = "asdas;  
int a"b;  
printf("hello);  
}
```

This has errors i.e. comments, string not ending with " , a"b is not supported by this language, " missing in printf.