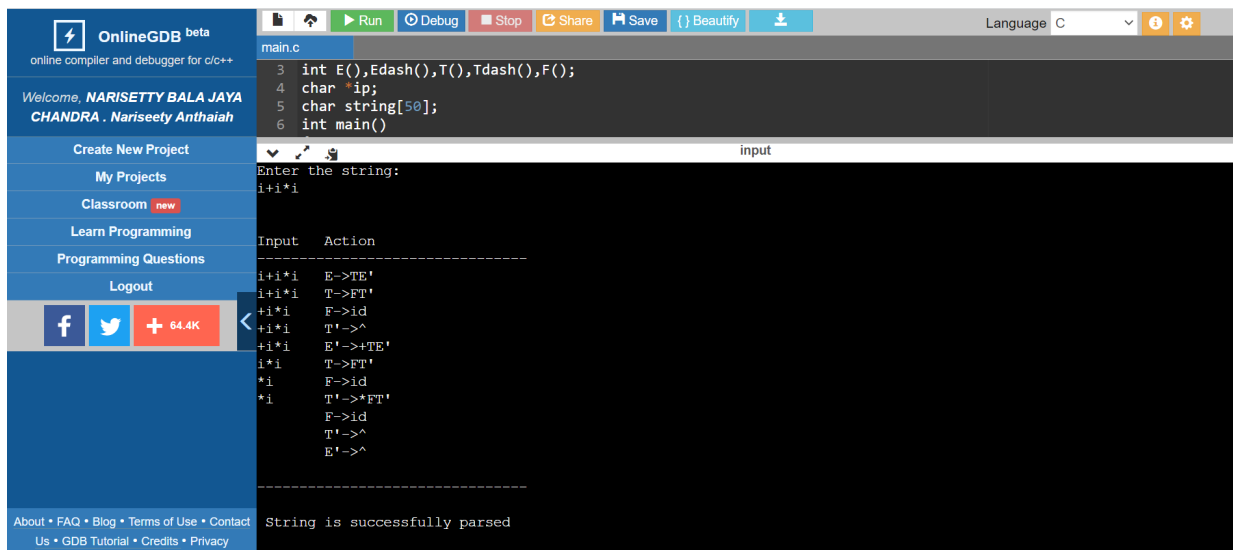


Week 6 - program 1

Test cases:

i+i*i	String is successfully parsed
i+i	String is successfully parsed
i++*i	Error in parsing String
i+i*	Error in parsing String



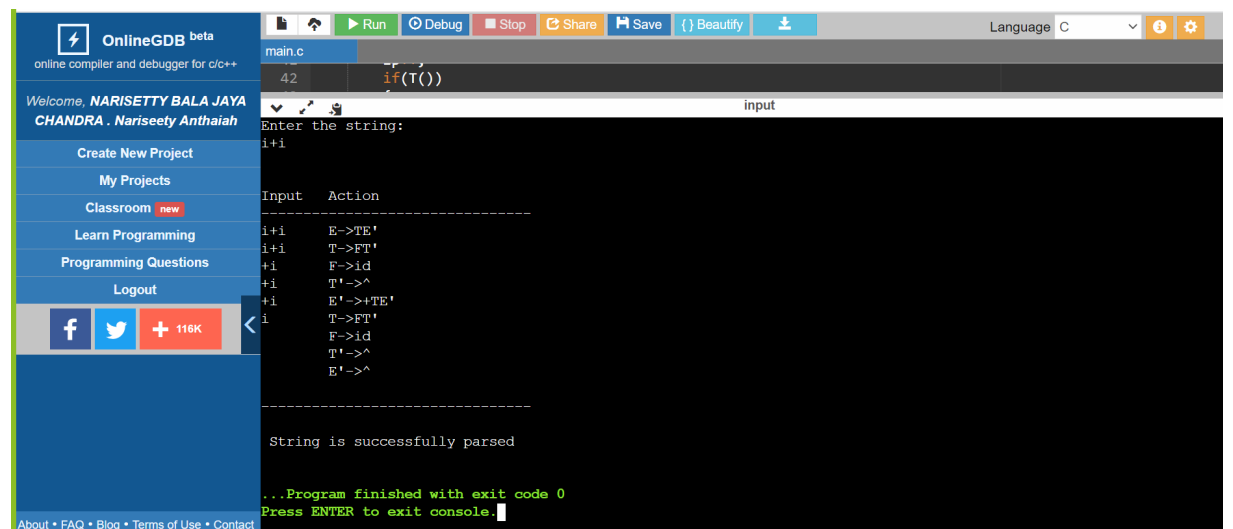
The screenshot shows the OnlineGDB interface. The code in main.c is:

```
1 int E(),Edash(),T(),Tdash(),F();
2 char *ip;
3 char string[50];
4 int main()
5 {
6 }
```

The input is "i+i*i". The parser's actions are shown in the console:

```
Input  Action
-----
i+i*i  E->TE'
i+i*i  T->FT'
+i*i   F->id
+i*i   T'->^
+i*i   E'->+TE'
+i*i   T->FT'
+i     F->id
+i     T'->+FT'
+i     F->id
+i     T'->^
+i     E'->^

String is successfully parsed
```



The screenshot shows the OnlineGDB interface. The code in main.c is:


```
1 int E(),Edash(),T(),Tdash(),F();
2 char *ip;
3 char string[50];
4 int main()
5 {
6 }
```

The input is "i+i". The parser's actions are shown in the console:




```
Input  Action
-----
i+i     E->TE'
i+i     T->FT'
+i       F->id
+i       T'->^
+i       E'->+TE'
+i       T->FT'
+i       F->id
+i       T'->^
+i       E'->^

String is successfully parsed








...Program finished with exit code 0
Press ENTER to exit console.
```




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Language C



main.c

```

3  int E(),Edash(),T(),Tdash(),F();
4  char *ip;
5  char string[50];
6  int main()

```

input

Enter the string:


i+i*

Input	Action
i+i*	E->TE'
i+i*	T->FT'
i	F->id
i	T!->^
i	E!->+TE'
i*	T->FT'
*	F->id
*	T!->*FT'




Error in parsing String

...Program finished with exit code 0








Press ENTER to exit console.




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Language C



main.c

```

42  if(T())

```

input

Enter the string:

i+*+i

Input	Action
i+*+i	E->TE'
i+*+i	T->FT'
++i	F->id
++i	T!->^
++i	E!->+TE'
*+i	T->FT'

Error in parsing String

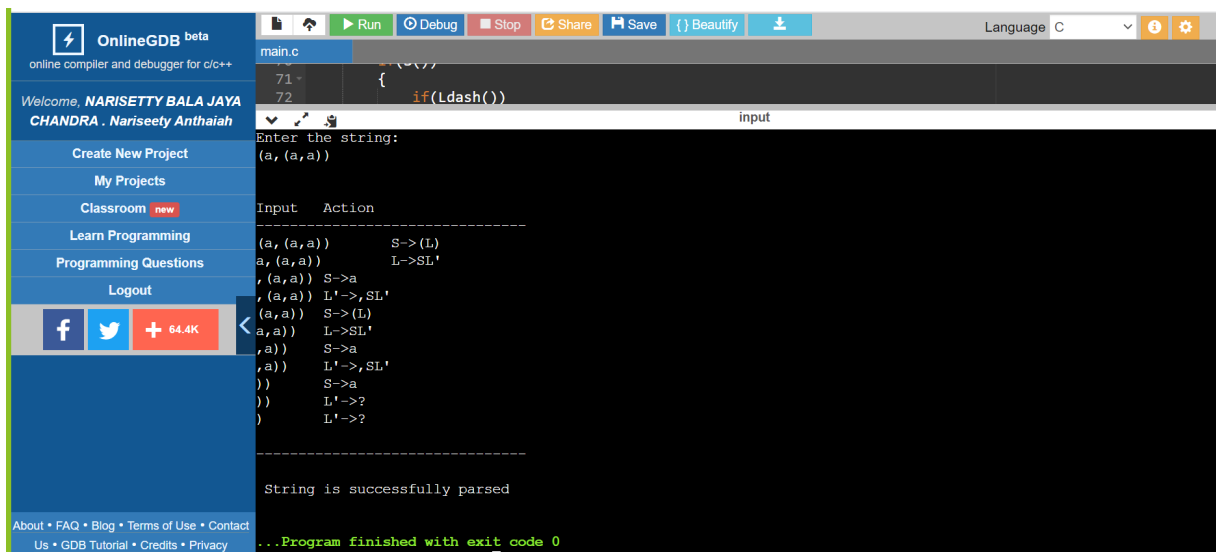
...Program finished with exit code 0

Press ENTER to exit console.

Week 6 - program 2

Test cases:

(a,(a,a))	String is successfully parsed
(a,((a,a), (a,a)))	String is successfully parsed
((a,a)	Error in parsing String
(a,a	Error in parsing String



The screenshot shows the OnlineGDB interface. The code in `main.c` is:

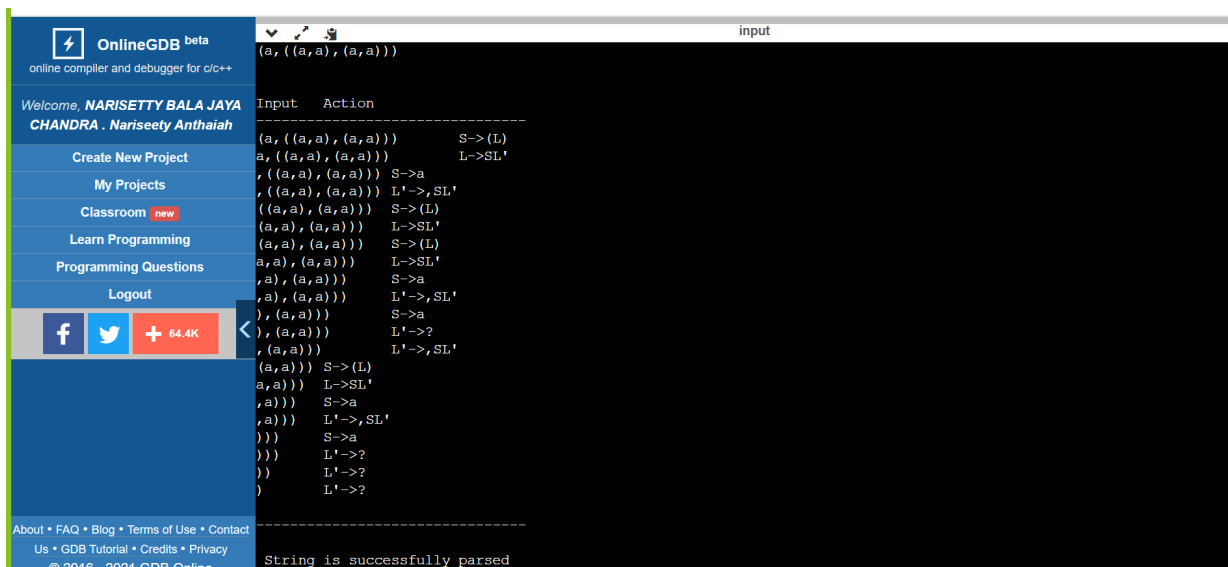
```
main.c
71 - {
72 -     if(Ldash())
```

The input is `(a, (a, a))`. The output shows the parsing process:

```
Input  Action
-----
(a, (a, a)) S->(L)
a, (a, a)) L->SL'
, (a, a)) S->a
, (a, a)) L'->,SL'
(a, a)) S->(L)
(a, a)) L->SL'
, a)) S->a
, a)) L'->,SL'
)) S->a
)) L'->?
) L'->?
```

String is successfully parsed

...Program finished with exit code 0



The screenshot shows the OnlineGDB interface. The input is `(a, ((a, a), (a, a)))`. The output shows the parsing process:

```
Input  Action
-----
(a, ((a, a), (a, a))) S->(L)
a, ((a, a), (a, a))) L->SL'
, ((a, a), (a, a))) S->a
, ((a, a), (a, a))) L'->,SL'
((a, a), (a, a))) S->(L)
(a, a), (a, a))) L->SL'
(a, a), (a, a))) S->(L)
a, a), (a, a))) L->SL'
, a), (a, a))) S->a
, a), (a, a))) L'->,SL'
), (a, a))) S->a
), (a, a))) L'->?
, (a, a))) L'->,SL'
(a, a))) S->(L)
a, a))) L->SL'
, a))) S->a
, a))) L'->,SL'
))) S->a
))) L'->?
)) L'->?
) L'->?
```

String is successfully parsed

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f

t

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main.c

```
66 if(*ip=='  
67 {
```

Language C

input

Enter the string:
((a,a)

Input	Action
((a,a)	S->(L)
(a,a)	L->SL'
(a,a)	S->(L)
a,a)	L->SL'
,a)	S->a
)	L'->,SL'
)	S->a
)	L'->?
)	L'->?

Error in parsing String

...Program finished with exit code 0
Press ENTER to exit console.

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f

t

+ 64.4K

main.c

```
66 if(*ip=='  
67 {
```

Language C

input

Enter the string:
(a,a

Input	Action
(a,a	S->(L)
a,a	L->SL'
,a	S->a
,a	L'->,SL'
,a	S->a
	L'->?

Error in parsing String

...Program finished with exit code 0
Press ENTER to exit console.

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