2CS701 Compiler Construction

Practical 2	
Rollno: 19BCE236	**Name:** Samariya Darsh
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Aim :- To implement recursive descent parser.

Grammar :-

S → E+i

E → i*E

Code :-

```c
#include <stdio.h>
char ch;
int fail = 0;
void next(char n)
{
   if (ch == n)
   {
      ch = getchar();

   }
   else
   {
      printf("Error");
      fail = 1;
   }

}

void next2()
{
   if (ch == 'i')
   {
      next('i');
      next('*');
```

```c
            next2();
        }
        else if (ch == 't')
        {
            next('t');

        }

    }

    void start()
    {
        next2();
        if (ch == '+')
        {
            next('+');
            next('i');
        }
        else
        {
            fail = 1;
            printf("Error");

        }
    }

    int main()
    {
        ch = getchar();
        start();
        if (!fail)
            printf("Success");

    }
```
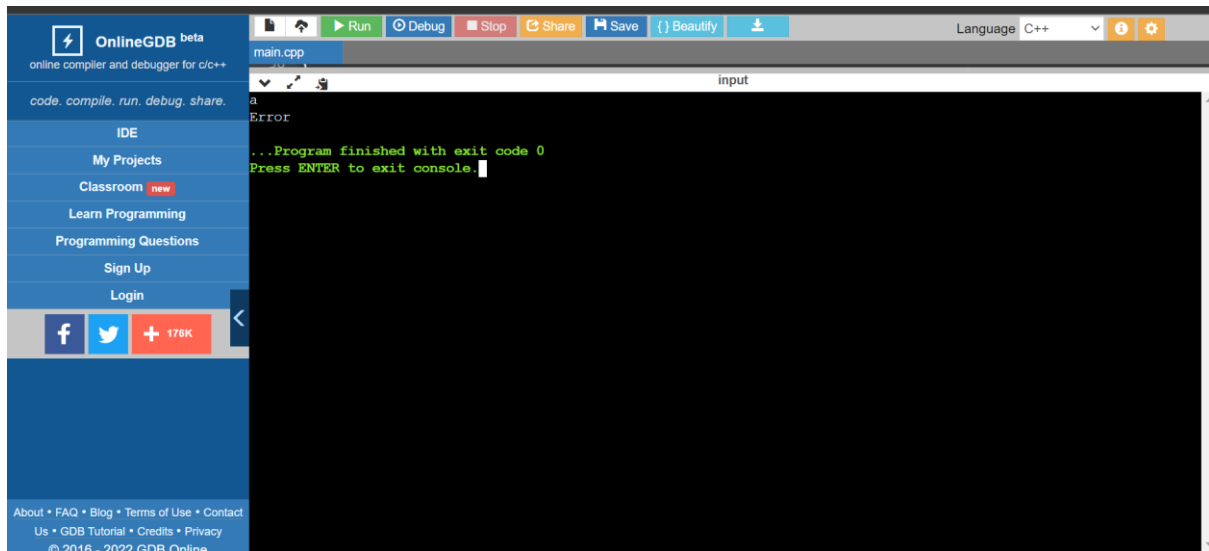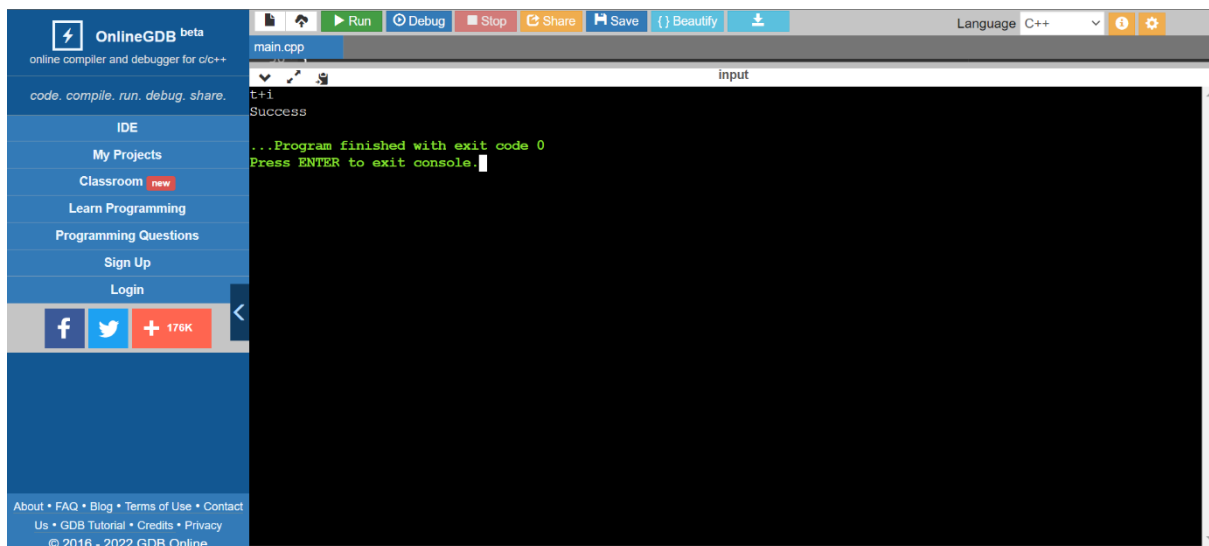
Output :-