C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

c.d exp1.cpp | exp 2.cpp | exp 3.cpp | exp.3.cpp | ex 4.cpp | exp 5.cpp | exp 6.cpp | exp 7.cpp

```
1   #include<stdio.h>
2   #include<ctype.h>
3   void FIRST(char[],char );
4   void addToResultSet(char[],char);
5   int numOfProductions;
6   char productionSet[10][10];
7   int main()
8   {
9       int i;
10      char choice;
11      char c;
12      char result[20];
13      printf("How many number of productions ? :");
14      scanf(" %d",&numOfProductions);
15      for(i=0;i<numOfProductions;i++)
16      {
17          printf("Enter productions Number %d : ",i+1);
18          scanf(" %s",productionSet[i]);
19      }
20      do
21      {
22          printf("\n Find the FIRST of  :");
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 7.exe
- Output Size: 130.576171875 KiB
- Compilation Time: 0.19s
```

Line: 15 Col: 36 Sel: 0 Lines: 92 Length: 2163 Insert Done parsing in 0.016 seconds

28°C Mostly cloudy

Search

ENG IN

10:34 03-05-2023

C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

c.d exp1.cpp | exp 2.cpp | exp 3.cpp | exp.3.cpp | ex 4.cpp | exp 5.cpp | exp 6.cpp | exp 7.cpp

```
22          printf("\n Find the FIRST of  :");
23          scanf(" %c",&c);
24          FIRST(result,c);
25          printf("\n FIRST(%c)= { ",c);
26          for(i=0;result[i]!='\0';i++)
27          printf(" %c ",result[i]);
28          printf("}\n");
29           printf("press 'y' to continue : ");
30          scanf(" %c",&choice);
31      }
32      while(choice=='y'||choice =='Y');
33  }
34
35  void FIRST(char* Result,char c)
36  {
37      int i,j,k;
38      char subResult[20];
39      int foundEpsilon;
40      subResult[0]='\0';
41      Result[0]='\0';
42
43      if(!(isupper(c)))
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 7.exe
- Output Size: 130.576171875 KiB
- Compilation Time: 0.19s
```

Line: 15 Col: 36 Sel: 0 Lines: 92 Length: 2163 Insert Done parsing in 0.016 seconds

28°C Mostly cloudy

Search

ENG IN

10:34 03-05-2023

C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

c.d exp1.cpp | exp 2.cpp | exp 3.cpp | exp.3.cpp | ex 4.cpp | exp 5.cpp | exp 6.cpp | exp 7.cpp

```
43      if(!(isupper(c)))
44      {
45          addToResultSet(Result,c);
46                  return ;
47      }
48
49      for(i=0;i<numOfProductions;i++)
50      {
51
52          if(productionSet[i][0]==c)
53          {
54
55  if(productionSet[i][2]=='$') addToResultSet(Result,'$');
56
57        else
58              {
59                  j=2;
60                  while(productionSet[i][j]!='\0')
61                  {
62                  foundEpsilon=0;
63                  FIRST(subResult,productionSet[i][j]);
64                  for(k=0;subResult[k]!='\0';k++)
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 7.exe
- Output Size: 130.576171875 KiB
- Compilation Time: 0.19s
```

Line: 15 Col: 36 Sel: 0 Lines: 92 Length: 2163 Insert Done parsing in 0.016 seconds

28°C Mostly cloudy

Search

ENG IN

10:34 03-05-2023

C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

c.d exp1.cpp | exp 2.cpp | exp 3.cpp | exp.3.cpp | ex 4.cpp | exp 5.cpp | exp 6.cpp | exp 7.cpp

```
64                  for(k=0;subResult[k]!='\0';k++)
65                      addToResultSet(Result,subResult[k]);
66                  for(k=0;subResult[k]!='\0';k++)
67                      if(subResult[k]=='$')
68                      {
69                          foundEpsilon=1;
70                          break;
71                      }
72
73                  if(!foundEpsilon)
74                      break;
75                  j++;
76                 }
77             }
78     }
79 }
80     return ;
81 }
82
83 void addToResultSet(char Result[],char val)
84 {
85     int k;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 7.exe
- Output Size: 130.576171875 KiB
- Compilation Time: 0.19s
```

Line: 15 Col: 36 Sel: 0 Lines: 92 Length: 2163 Insert Done parsing in 0.016 seconds

28°C Mostly cloudy

Search

ENG IN

10:34 03-05-2023

C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

c.d exp1.cpp | exp 2.cpp | exp 3.cpp | exp.3.cpp | ex 4.cpp | exp 5.cpp | exp 6.cpp | exp 7.cpp

```
71                      }
72
73                  if(!foundEpsilon)
74                      break;
75                  j++;
76                 }
77             }
78         }
79     }
80         return ;
81     }
82
83     void addToResultSet(char Result[],char val)
84     {
85         int k;
86         for(k=0 ;Result[k]!='\0';k++)
87             if(Result[k]==val)
88                 return;
89         Result[k]=val;
90         Result[k+1]='\0';
91     }
92
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 7.exe
- Output Size: 130.576171875 KiB
- Compilation Time: 0.19s
```

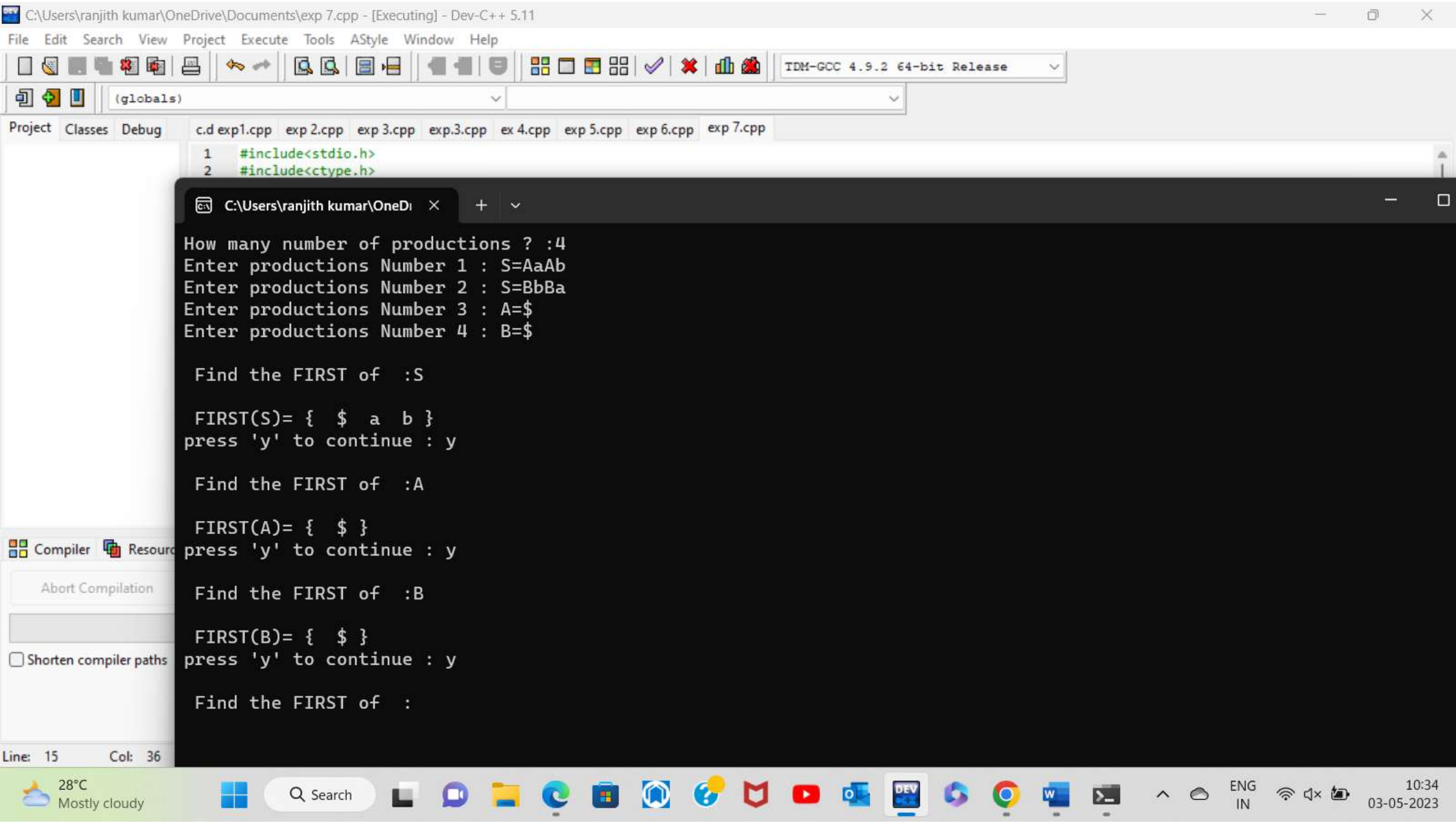
Line: 15 Col: 36 Sel: 0 Lines: 92 Length: 2163 Insert Done parsing in 0.016 seconds

28°C Mostly cloudy

Search

ENG IN

10:35 03-05-2023


C:\Users\ranjith kumar\OneDrive\Documents\exp 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
c.d exp1.cpp exp 2.cpp exp 3.cpp exp.3.cpp ex 4.cpp exp 5.cpp exp 6.cpp exp 7.cpp
1 #include<stdio.h>
2 #include<ctype.h>
C:\Users\ranjith kumar\OneDr
How many number of productions ? :4
Enter productions Number 1 : S=AaAb
Enter productions Number 2 : S=BbBa
Enter productions Number 3 : A=$
Enter productions Number 4 : B=$
Find the FIRST of :S
FIRST(S)= { $ a b }
press 'y' to continue : y
Find the FIRST of :A
FIRST(A)= { $ }
press 'y' to continue : y
Find the FIRST of :B
FIRST(B)= { $ }
press 'y' to continue : y
Find the FIRST of :
Compiler Resourc
Abort Compilation
Shorten compiler paths
Line: 15 Col: 36
28°C
Mostly cloudy
Search
ENG
IN
10:34
03-05-2023