**Compiler Design**

* **Assignment – 4: First find**

**CODE:**

**#include<stdio.h>**

**#include<ctype.h>**

**int count,n=0;**

**char prodn[10][10], first[10];**

**void FIRST(char c)**

**{**

**int j;**

**if(!(isupper(c)))first[n++]=c;**

**for(j=0;j<count;j++)**

**{**

**if(prodn[j][0]==c)**

**{**

**if(prodn[j][2]=='$') first[n++]='$';**

**else if(islower(prodn[j][2]))first[n++]=prodn[j][2];**

**else FIRST(prodn[j][2]);**

**}**

**}**

**}**

**main()**

**{**

**int i,choice;**

**char c,ch;**

**printf("How many productions ? :");**

**scanf("%d",&count);**

**printf("Enter %d productions epsilon= $ :\n\n",count);**

**for(i=0;i<count;i++)**

**scanf("%s%c",prodn[i],&ch);**

**do**

**{**

**n=0;**

**printf("Element :");**

**scanf("%c",&c);**

**FIRST(c);**

**printf("\n FIRST(%c)= { ",c);**

**for(i=0;i<n;i++)**

**printf("%c ",first[i]);**

**printf("}\n");**

**printf("press 1 to continue : ");**

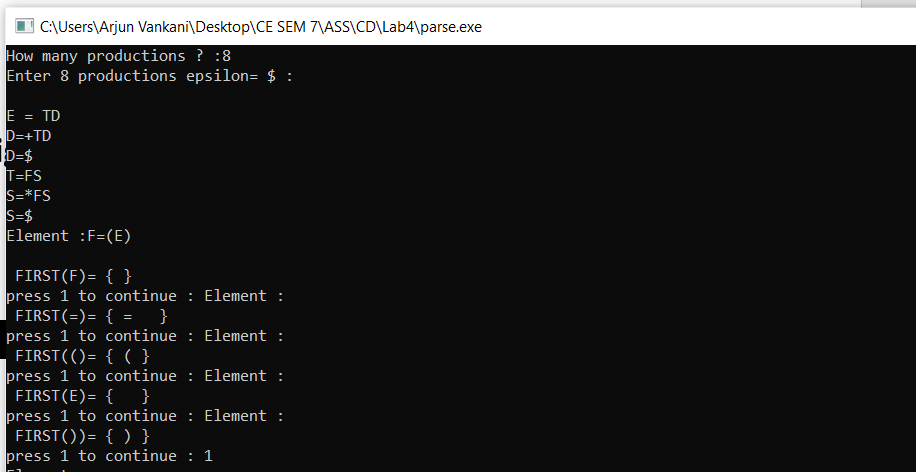
**scanf("%d%c",&choice,&ch);**

**}**

**while(choice==1);**

**}**

**Output:**

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