PREDICTIVE PARSING

Aim: A program for Predictive Parsing

Algorithm:-

1. Start the program.
2. Initialize the required variables.
3. Get the number of coordinates and productions from the user.
4. Perform the following

for (each production A → α in G) {
for (each terminal a in FIRST(α))
add A → α to M[A, a];
if (ε is in FIRST(α))
for (each symbol b in FOLLOW(A))
add A → α to M[A, b];

5. Print the resulting stack.
6. Print if the grammar is accepted or not.
7. Exit the program.

OUTPUT

```
enter the no. of productions
2
enter the productions in a grammar
S->CC
C->eC|d
first pos
FIRS[S]=ed
FIRS[C]=ed
follow pos
FOLLOW[S]=$
FOLLOW[C]=d$

M[S,e]=S->CC
M[S,d]=S->CC
M[C,d]=C->eC
M[C,$]=C->eC
M[C,d]=C->d
```