AIM:- Implement predictive parser (RDP) .

PROCEDURE:-

- Write algorithm for Recursive dependent parser for a desktop calculator's language.
- Write a program to implement predictive parser for desktop calculator.

Program:-

RDP.c

```c
#include<stdio.h>

#include<string.h>

#include<ctype.h>

char input[10];

int i,error;

void E();

void T();

void Eprime();

void Tprime();

void F();


int main()

{

i=0;

error=0;

printf("Enter an Arithmetic exp : ");

gets(input);

E();

if(strlen(input)==i&&error==0)

printf("\n Accepted ...!!!\n ");

else

printf("\n Rejected ...!!!\n");

}


void E()

{
```

```c
T();
Eprime();
}
void Eprime()
{
if(input[i]=='+'||input[i]=='-')
{
i++;
T();
Eprime();
}
}
void T()
{
F();
Tprime();
}
void Tprime()
{
        if(input[i]=='*'|| input[i]=='/')
        {
        i++;
        F();
        Tprime();
        }
}
void F()
{
if(isalnum(input[i]))
i++;
else if(input[i]=='(')
{
```

```
i++;

E();

if(input[i]==')')

i++;

else error=1;

}

else error=1;

}
```

Output:-