**RECURSIVE DECENT PARSER**

**CODE:**

import java.util.\*;

public class RecursiveDescent

{

static int ptr,mtr=0;

static char input[];

public static void main(String args[])

{

Scanner sr=new Scanner(System.in);

System.out.println("Enter String");

String in=sr.nextLine();

input=in.toCharArray();

ptr=0;

E();

if(ptr==input.length && mtr!=1)

System.out.println("String is accepted");

else

System.out.println("String is not accepted");

}

static void E()

{

T();

E1();

}

static void T()

{

F();

T1();

}

static void F()

{

if((ptr<input.length))

{

if(input[ptr]=='a')

{

ptr++;

}

else if(input[ptr]=='(')

{

ptr=ptr+1;

E();

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

ptr=ptr+1;

}

else

{

mtr=1;

System.out.println("String is incorrect at "+(ptr+1));

}

}

}

static void E1()

{

if((ptr<input.length))

{

if(input[ptr]=='+')

{

ptr=ptr+1;

T();

E1();

}

}

}

static void T1()

{

if((ptr<input.length))

{

if(input[ptr]=='\*')

{

ptr=ptr+1;

F();

T1();

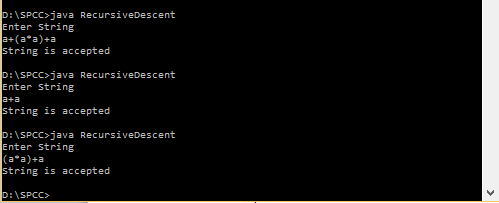
}

}

}

}

**OUTPUT:**

****