

## Program 2:

Implementation of Language recognizer for set of all strings ending with two symbols of same type.

### Method:

```
void
main ()
{
    int state = 0, i = 0;
    char current, input[20];
    printf ("Enter input string \t :");
    scanf ("%s", input);
    while ((current = input[i++]) != '\0')
    {
        switch (state)
        {
            case 0:
                if (current == '0')
                    state = 1;
                else if (current == '1')
                    state = 2;
                else
                {
                    printf ("Invalid token");
                    exit (0);
                }
                break;
            case 1:
                if (current == '0')
                    state = 3;
                else if (current == '1')
                    state = 2;
                else
                {
                    printf ("Invalid token");
                    exit (0);
                }
                break;
            case 2:
                if (current == '0')
```

```

        state = 1;
    else if (current == '1')
        state = 4;
    else
    {
        printf ("Invalid token");
        exit (0);
    }
    break;
case 3:
    if (current == '0')
        state = 3;
else if (current == '1')
    state = 2;
    else
    {
        printf ("Invalid token");
        exit (0);
    }
    break;
case 4:
    if (current == '0')
        state = 1;
    else if (current == '1')
        state = 4;
    else
    {
        printf ("Invalid token");
        exit (0);
    }
    break;
}

}

if (state == 3 || state == 4)
    printf ("\n\nString accepted\n\n");
else
    printf ("\n\nString not accepted\n\n");
}

```