

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

```
#include<stdio.h>
void main()
{
    int position=0,i=0;
    char letter,input[20];
    printf("Enter input string \t :");
    scanf("%s",input);
    while((letter=input[i++])!='\0')
    {
        switch(position)
        {
            case 0: if(letter=='a')
                    position=1;
                    else if(letter=='b')
                    position=3;
                    else
                    {
                        printf("Invalid letter");
                        exit(0);
                    }
                    break;

            case 1: if(letter=='a')
                    position=2;
                    else if(letter=='b')
                    position=3;
                    else
                    {
                        printf("Invalid letter");
                        exit(0);
                    }
                    break;

            case 2: if(letter=='a')
                    position=2;
                    else if(letter=='b')
                    position=3;
                    else
                    {
```

```

        printf("Invalid letter");
        exit(0);

    }
    break;

case 3: if(letter=='a')
        position=1;
    else if(letter=='b')
        position=4;
    else
    {
        printf("Invalid letter");
        exit(0);

    }
    break;

case 4: if(letter=='a')
        position=1;
    else if(letter=='b')
        position=4;
    else
    {
        printf("Invalid letter");
        exit(0);

    }
    break;

    }
}
if(position==2 || position==4)
    printf("\n\nString accepted\n\n");
else
    printf("\n\nString not accepted\n\n");
}

```