

A STRING BELONGS TO A GRAMMAR(2)

```
#include<stdio.h>
#include<string.h>
int main()
{
    char s[100];
    int i,flag,flag1,a,b;
    int l;
    printf("enter a string to check:");
    scanf("%s",s);
    l=strlen(s);
    flag=1;
    for(i=0;i<l;i++)
    {
        if(s[i]!='0' && s[i]!='1')
        {
            flag=0;
        }
    }
    if(flag!=1)
    printf("string is Not Valid\n");
    if(flag==1)
    {
        flag1=1;
        a=0;b=l-1;
        while(a!=(l/2))
        {
            if(s[a]!=s[b])
            {
```

```
flag1=0;

}

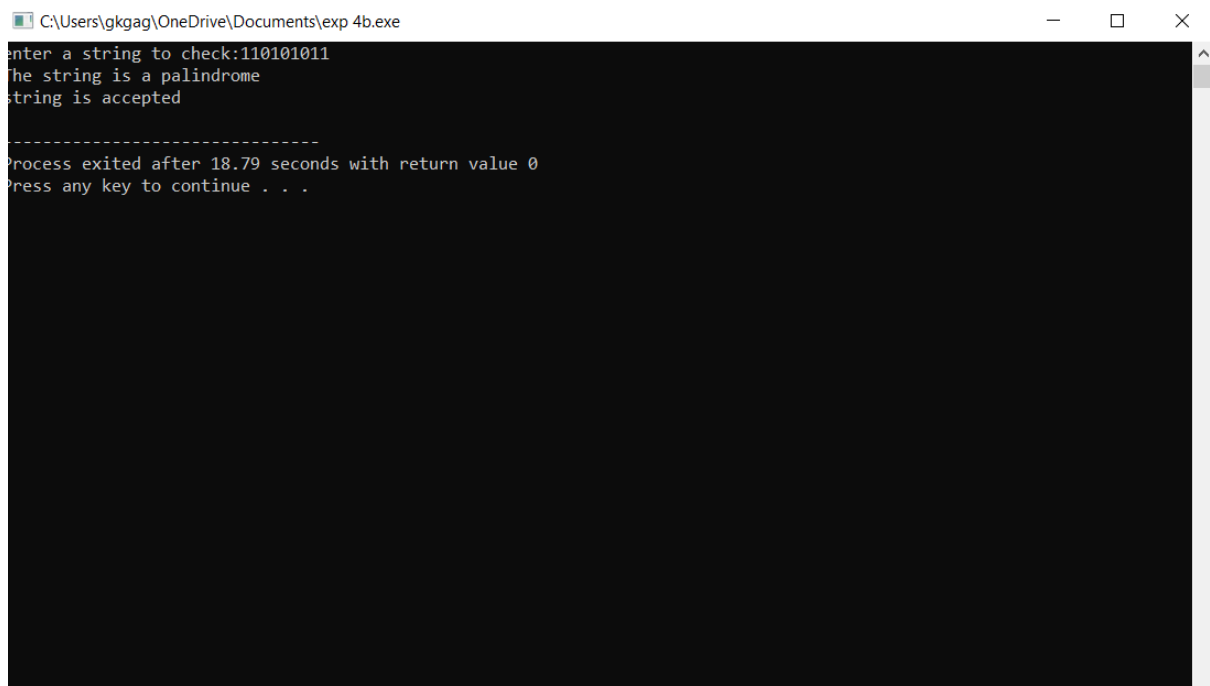
a=a+1;
b=b-1;
}

if (flag1==1)
{
    printf("The string is a palindrome\n");
    printf("string is accepted\n");
}

else
{
    printf("The string is not a palindrome\n");
    printf("string is Not accepted\n");
}

}

}
```



```
C:\Users\gkgag\OneDrive\Documents\exp 4b.exe
Enter a string to check:110101011
The string is a palindrome
string is accepted

-----
Process exited after 18.79 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\gkgag\OneDrive\Documents\exp 4b.exe
enter a string to check:001110001
The string is not a palindrome
string is Not accepted

-----
Process exited after 10.35 seconds with return value 0
Press any key to continue . . .
```