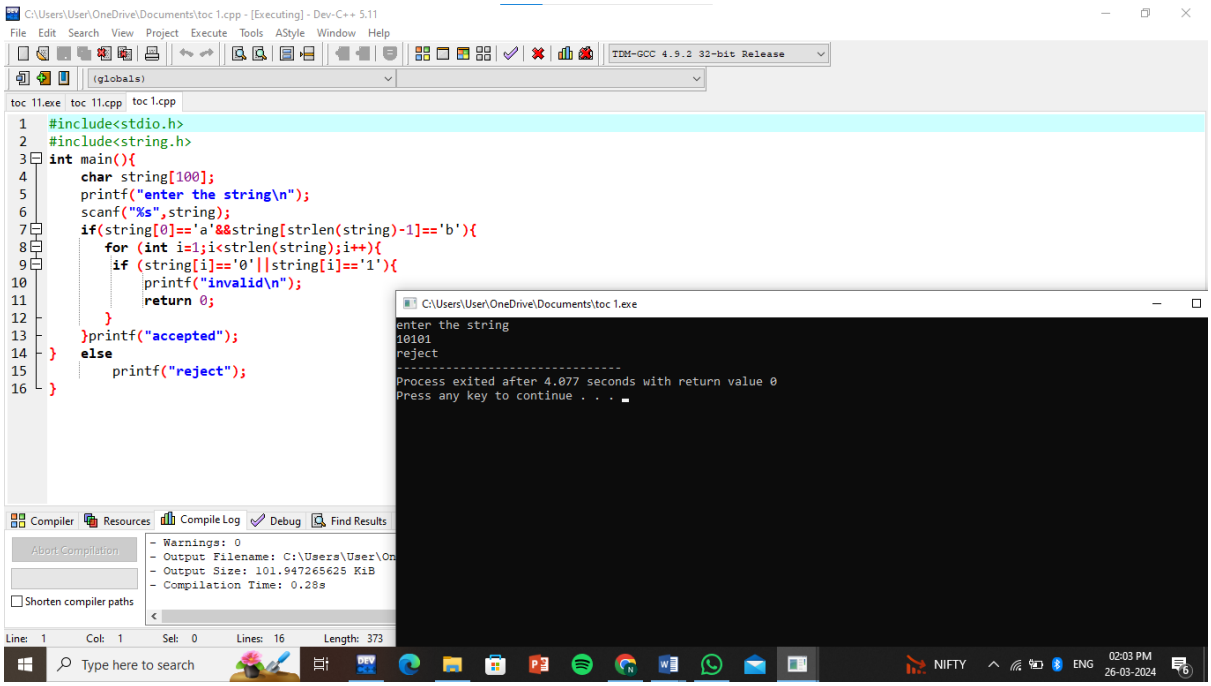
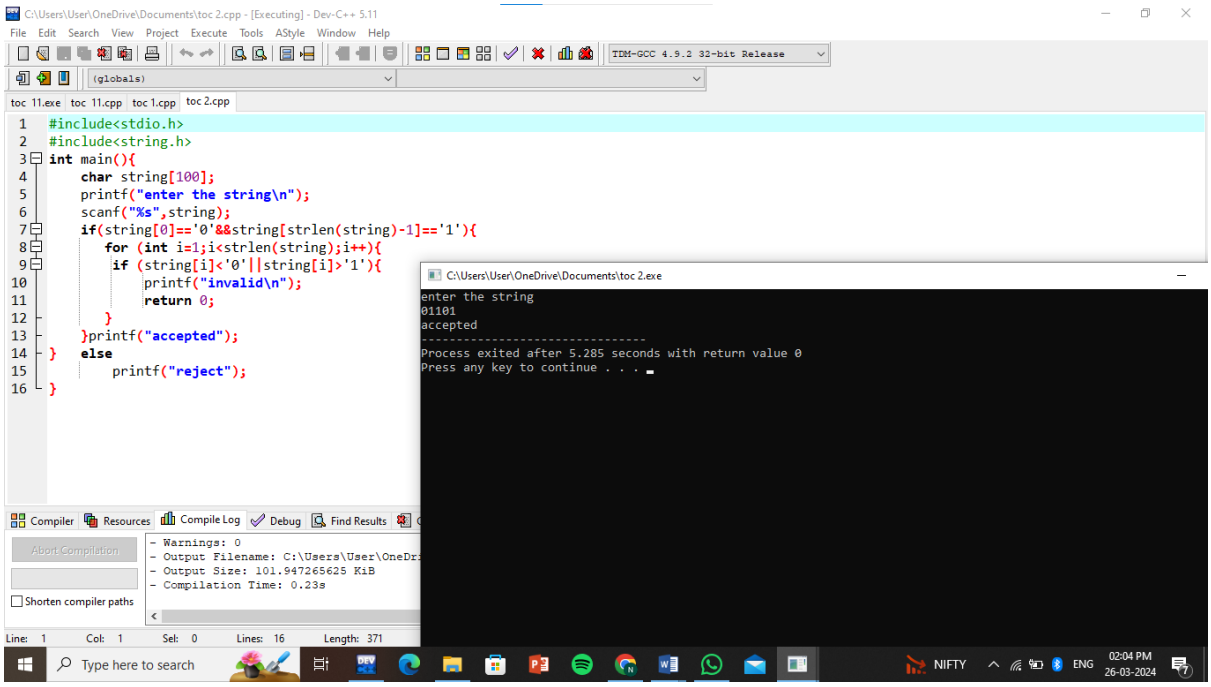
EXPERIMENT 1



```
#include<stdio.h>
#include<string.h>
int main(){
    char string[100];
    printf("enter the string\n");
    scanf("%s",string);
    if(string[0]=='a'&&string[strlen(string)-1]=='b'){
       for (int i=1;i<strlen(string);i++){
        if (string[i]=='0'||string[i]=='1'){
            printf("invalid\n");
            return 0;
       }
    }printf("accepted");
}   else
        printf("reject");
}
```

```
C:\Users\User\OneDrive\Documents\toc 1.exe
enter the string
10101
reject
--------------------------------
Process exited after 4.077 seconds with return value 0
Press any key to continue . . .
```

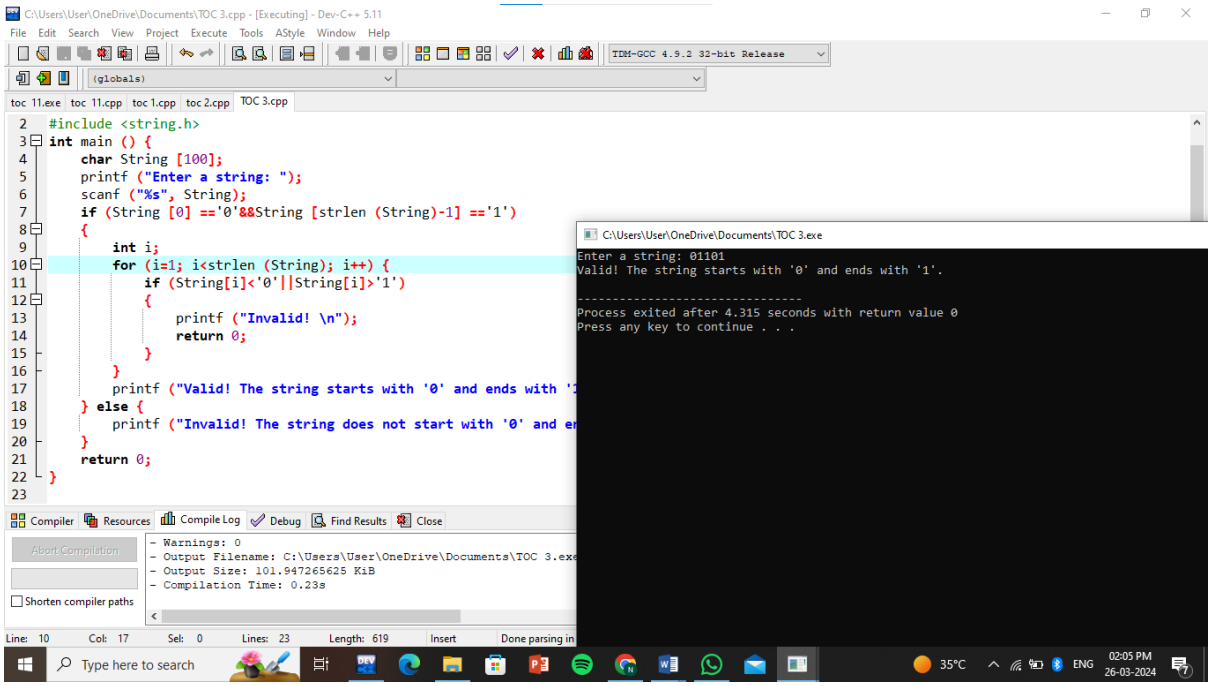
EXPERIMENT 2



```
#include<stdio.h>
#include<string.h>
int main(){
    char string[100];
    printf("enter the string\n");
    scanf("%s",string);
    if(string[0]=='0'&&string[strlen(string)-1]=='1'){
       for (int i=1;i<strlen(string);i++){
        if (string[i]<'0'||string[i]>'1'){
            printf("invalid\n");
            return 0;
       }
    }printf("accepted");
}   else
        printf("reject");
}
```

```
C:\Users\User\OneDrive\Documents\toc 2.exe
enter the string
01101
accepted
--------------------------------
Process exited after 5.285 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT 3

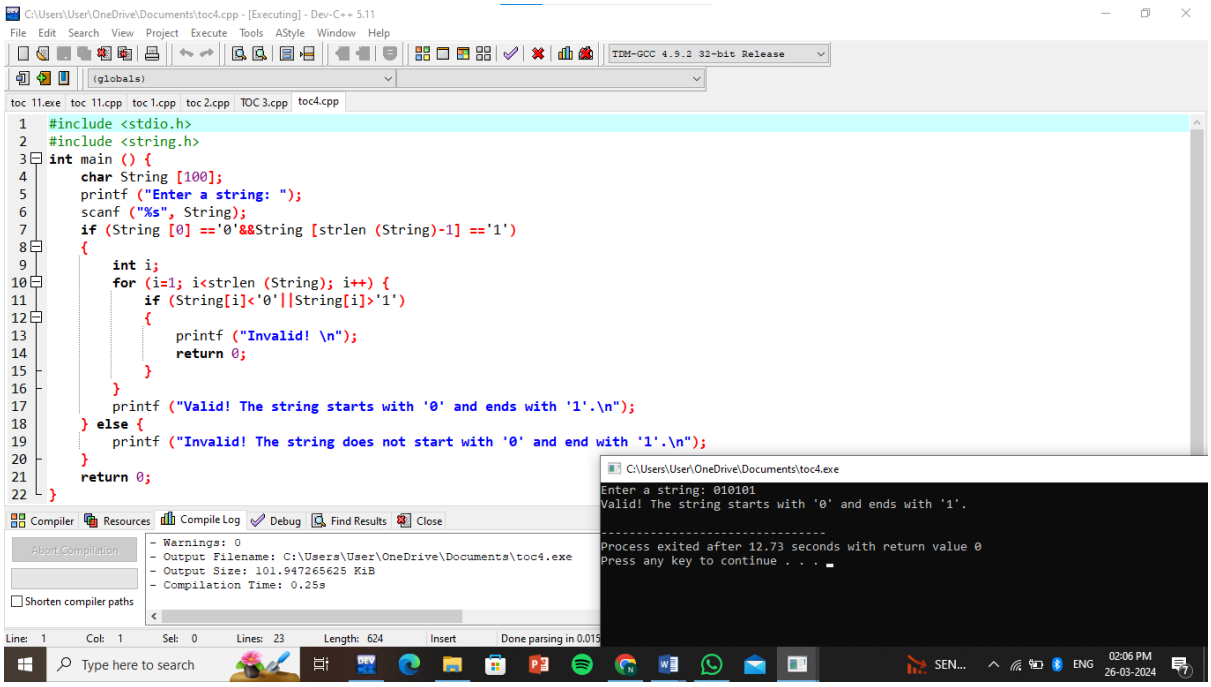


```
#include <string.h>
int main () {
    char String [100];
    printf ("Enter a string: ");
    scanf ("%s", String);
    if (String [0] =='0'&&String [strlen (String)-1] =='1')
    {
        int i;
        for (i=1; i<strlen (String); i++) {
            if (String[i]<'0'||String[i]>'1')
            {
                printf ("Invalid! \n");
                return 0;
            }
        }
        printf ("Valid! The string starts with '0' and ends with '
    } else {
        printf ("Invalid! The string does not start with '0' and e
    }
    return 0;
}
```

```
Enter a string: 01101
Valid! The string starts with '0' and ends with '1'.

--------------------------------
Process exited after 4.315 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT 4

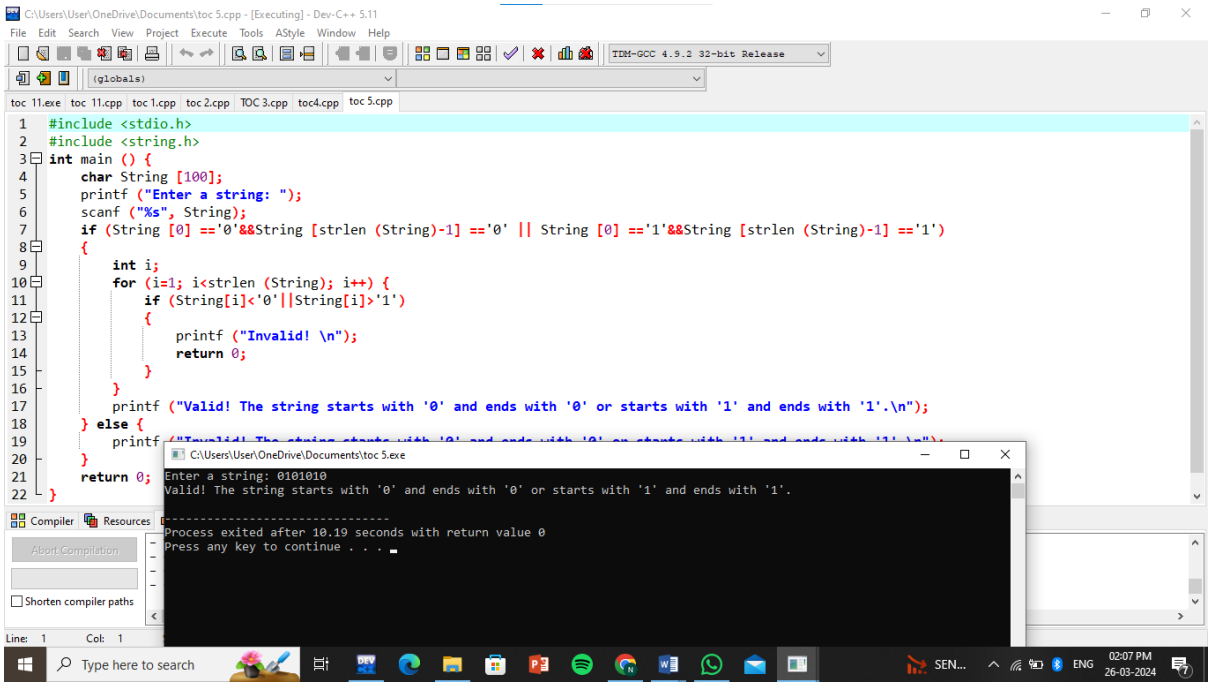


```
#include <stdio.h>
#include <string.h>
int main () {
    char String [100];
    printf ("Enter a string: ");
    scanf ("%s", String);
    if (String [0] =='0'&&String [strlen (String)-1] =='1')
    {
        int i;
        for (i=1; i<strlen (String); i++) {
            if (String[i]<'0'||String[i]>'1')
            {
                printf ("Invalid! \n");
                return 0;
            }
        }
        printf ("Valid! The string starts with '0' and ends with '1'.\n");
    } else {
        printf ("Invalid! The string does not start with '0' and end with '1'.\n");
    }
    return 0;
}
```

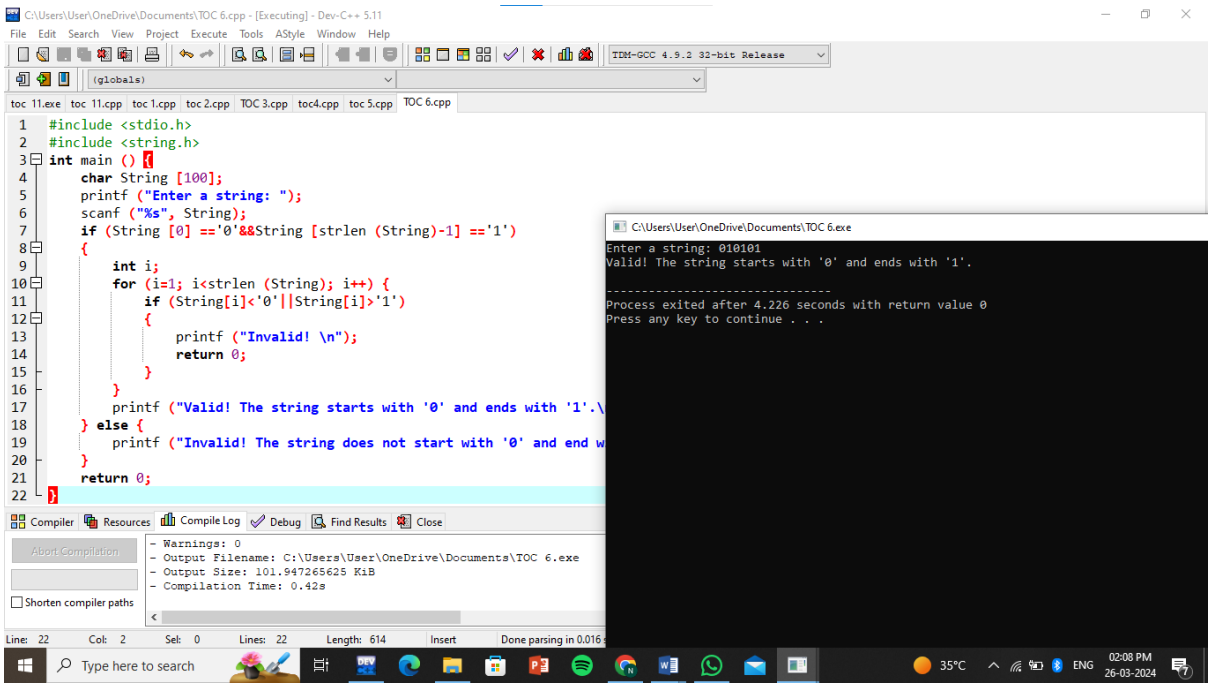
```
Enter a string: 010101
Valid! The string starts with '0' and ends with '1'.

--------------------------------
Process exited after 12.73 seconds with return value 0
Press any key to continue . . .
```

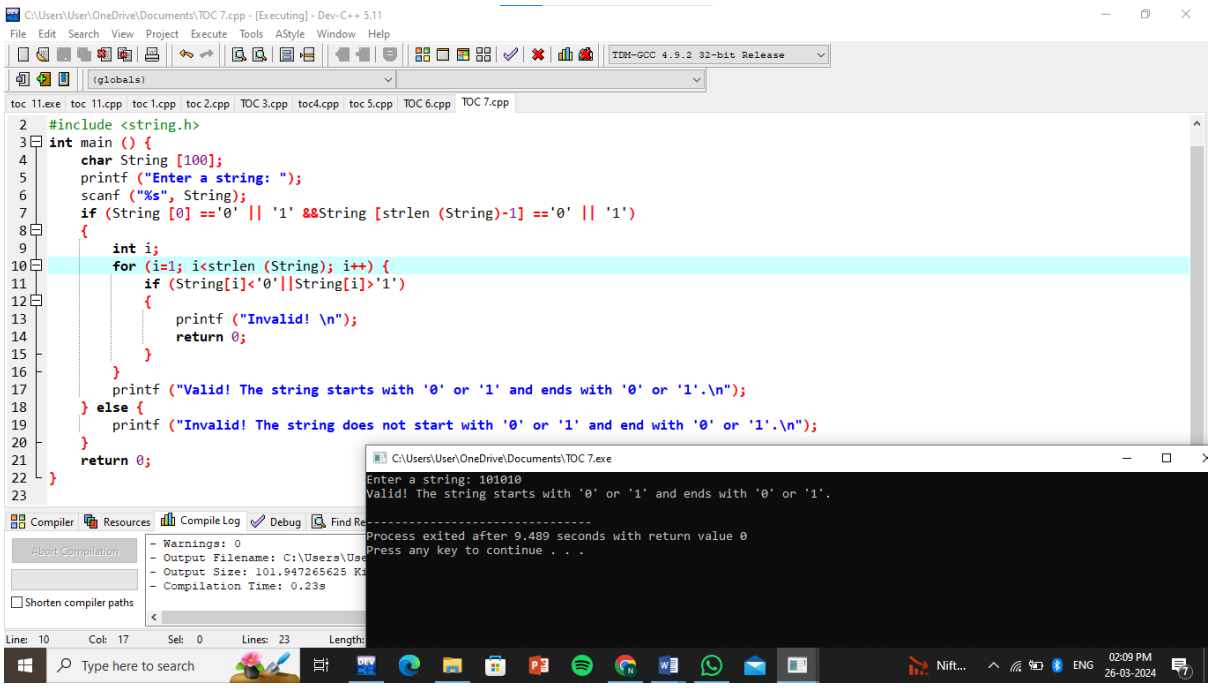
EXPERIMENT 5



EXPERIMENT 6



EXPERIMENT 7

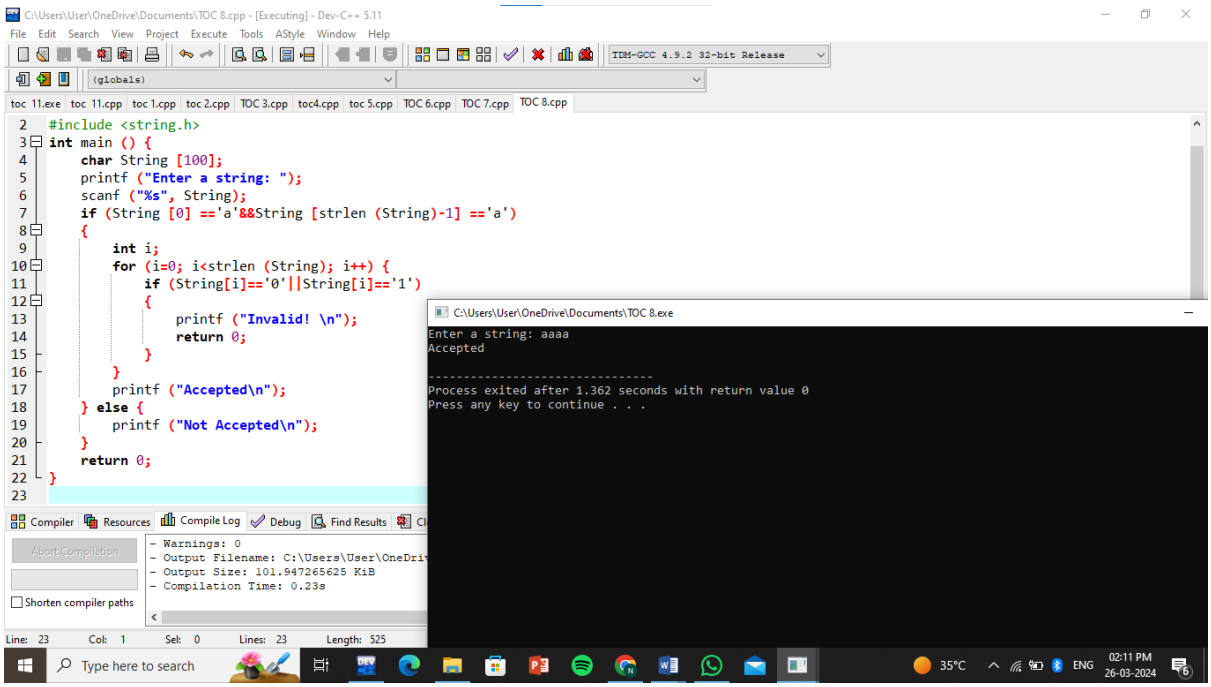


```
#include <string.h>
int main () {
    char String [100];
    printf ("Enter a string: ");
    scanf ("%s", String);
    if (String [0] =='0' || '1' &&String [strlen (String)-1] =='0' || '1')
    {
        int i;
        for (i=1; i<strlen (String); i++) {
            if (String[i]<'0'||String[i]>'1')
            {
                printf ("Invalid! \n");
                return 0;
            }
        }
        printf ("Valid! The string starts with '0' or '1' and ends with '0' or '1'.\n");
    } else {
        printf ("Invalid! The string does not start with '0' or '1' and end with '0' or '1'.\n");
    }
    return 0;
}
```

```
Enter a string: 101010
Valid! The string starts with '0' or '1' and ends with '0' or '1'.

--------------------------------
Process exited after 9.489 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT 8

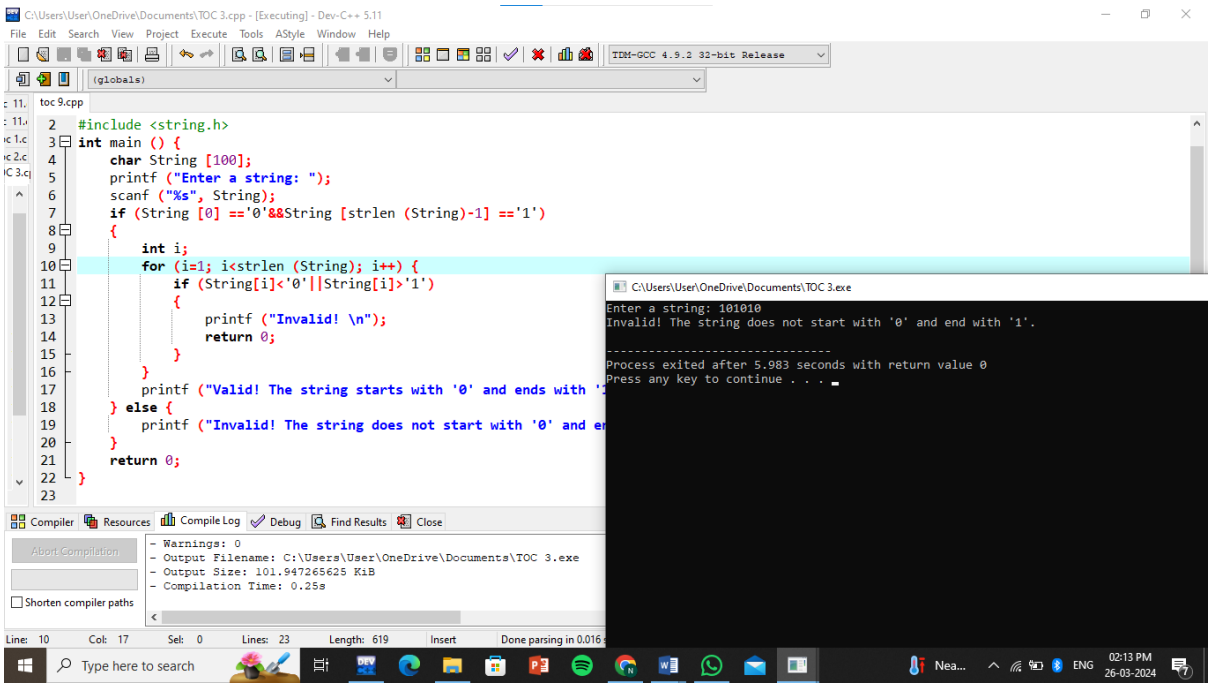


```
#include <string.h>
int main () {
    char String [100];
    printf ("Enter a string: ");
    scanf ("%s", String);
    if (String [0] =='a'&&String [strlen (String)-1] =='a')
    {
        int i;
        for (i=0; i<strlen (String); i++) {
            if (String[i]=='0'||String[i]=='1')
            {
                printf ("Invalid! \n");
                return 0;
            }
        }
        printf ("Accepted\n");
    } else {
        printf ("Not Accepted\n");
    }
    return 0;
}
```

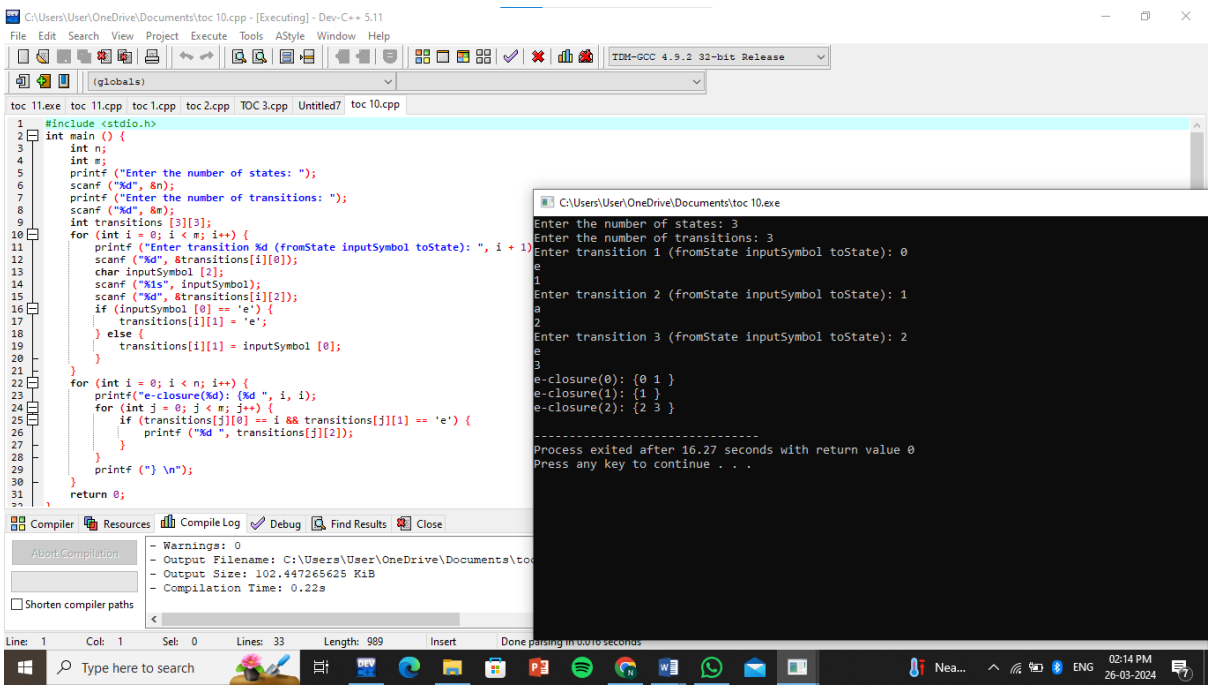
```
Enter a string: aaaa
Accepted

--------------------------------
Process exited after 1.362 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT 9



EXPERIMENT 10



EXPERIMENT 11