

EXPERIMENT:-4E

PROGRAM:

```
#include<stdio.h>
#include<string.h>
int main()
{
    char s[100];
    int i,flag,flag1;    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 Valid\n");
    else
        printf("string is Not Valid\n");
    if(flag==1)
    {
        flag1=0;
        for(i=0;i<l-2;i++)
        {
            if(s[i]=='1')
            {
                if(s[i+1]=='0' && s[i+2]=='1')
                {
                    flag1=1;
                    printf("Substring 101 exists. String accepted\n");
                    break;
                }
            }
        }
    }
    if(flag1==0)
```

```
        printf("Substring 101 does not exist. String not accepted\n");  
    }  
}
```

OUTPUT:-

```
enter a string to check:000111010100  
Substring 101 exists.  
String accepted  
  
Process returned 0 (0x0)   execution time : 5.531 s  
Press any key to continue.
```

```
enter a string to check:0000111100001111  
Substring 101 does not exist.  
String not accepted  
  
Process returned 0 (0x0)   execution time : 6.312 s  
Press any key to continue.
```

```
enter a string to check:abbabba  
string is Not Valid  
  
Process returned 0 (0x0)   execution time : 5.828 s  
Press any key to continue.
```