

[Type here]

EXPERIMENT:-4B

PROGRAM:-

```
#include<stdio.h>
#include<string.h> void
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");
    }
}
```

```
}  
}  
}
```

OUTPUT:-

```
enter a string to check:110101011  
The string is a palindrome  
string is accepted
```

```
Process returned 0 (0x0)   execution time : 14.737 s  
Press any key to continue.
```

```
enter a string to check:001110001  
The string is not a palindrome  
string is Not accepted
```

```
Process returned 0 (0x0)   execution time : 8.379 s  
Press any key to continue.
```

```
enter a string to check:1000a01ab  
string is Not Valid
```

```
Process returned 0 (0x0)   execution time : 6.766 s  
Press any key to continue.
```