

# Assignment 1

1)

a.

```
#include <stdio.h>

#include <string.h>

int main()
{
    printf("Enter a string: ");
    char str[10000];
    scanf("%s",str);
    int flag = 0;
    for(int i=0;str[i]!='\0';i++)
    {
        if(str[i]=='0')
        {
            if(i+2<strlen(str)&&str[i+1]=='0'&&str[i+2]=='0')
            {
                flag = 1;
                break;
            }
        }
    }
    if(flag)
        printf("Accepted!!!\n");
```

```
else
    printf("Not Accepted!!!\n");
return 0;
}
```

b.

```
#include <stdio.h>
#include <string.h>

int main()
{
    printf("Enter a string: ");
    char str[10000];
    scanf("%s",str);
    int flag = 0;
    for(int i=0;str[i]!='\0';i++)
    {
        if(str[i]=='1')
        {
            if(i+2<strlen(str)&&str[i+1]=='0'&&str[i+2]=='1')
            {
                flag = 1;
                break;
            }
        }
    }
    if(flag)
```

```
        printf("Accepted!!!\n");
    else
        printf("Not Accepted!!!\n");
    return 0;
}
```

C.

```
#include <stdio.h>
#include <string.h>

int main()
{
    printf("Enter a string: ");
    char str[10000];
    scanf("%s",str);
    int c0,c1;
    c0 = c1 = 0;
    for(int i=0;str[i]!='\0';i++)
    {
        if(str[i]=='1')
            c1++;
        if(str[i]=='0')
            c0++;
    }
    if(c1%3==0&& c0%2==0)
        printf("Accepted!!!\n");
    else
```

```
        printf("Not Accepted!!!\n");
    return 0;
}
```

2)

```
#include <stdio.h>
#include <string.h>

int main()
{
    printf("Enter a string: ");
    char str[10000];
    scanf("%s",str);
    int flag = 0;
    for(int i=0;str[i]!='\0';i++)
    {
        if(str[i]=='t')
        {
            if(i+2<strlen(str)&&str[i+1]=='h'&&str[i+2]=='e')
            {
                flag = 1;
                break;
            }
        }
    }
    if(flag)
```

```
        printf("Accepted!!!\n");  
    else  
        printf("Not Accepted!!!\n");  
    return 0;  
}
```