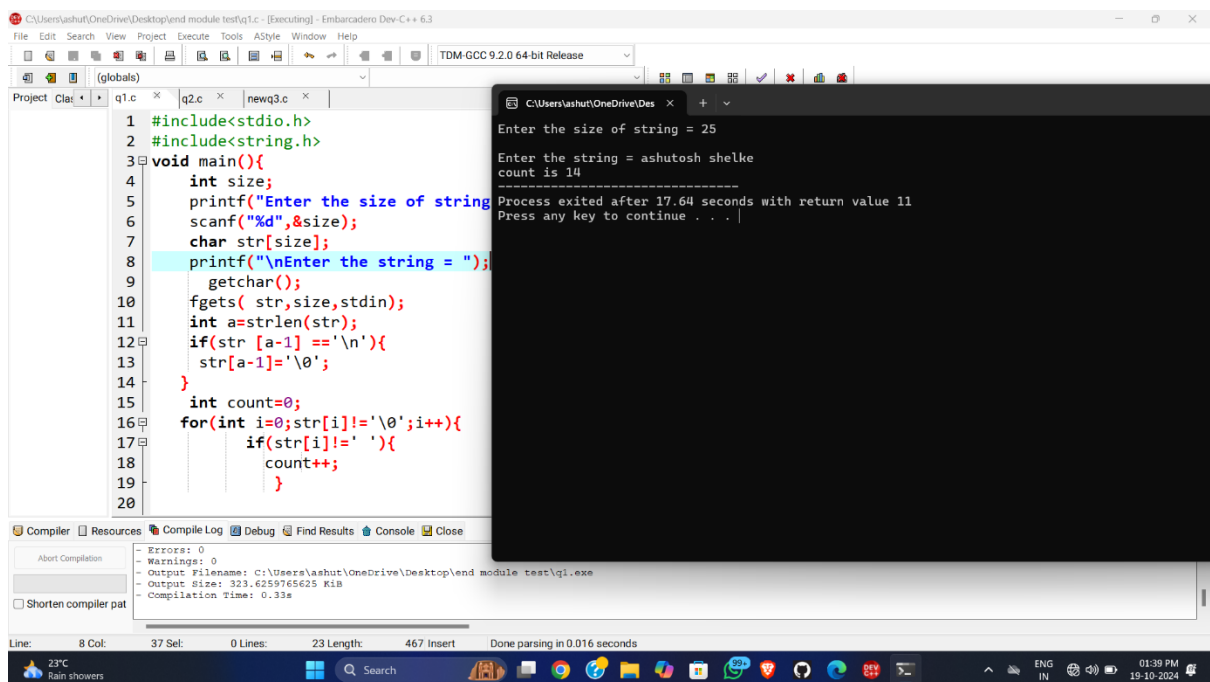


Q1

```
#include<stdio.h>
#include<string.h>
void main(){
    int size;
    printf("Enter the size of string = ");
    scanf("%d",&size);
    char str[size];
    printf("\nEnter the string = ");
    getchar();
    fgets( str,size,stdin);
    int a=strlen(str);
    if(str [a-1] =='\n'){
        str[a-1]='\0';
    }
    int count=0;
    for(int i=0;str[i]!='\0';i++){
        if(str[i]!=' '){
            count++;
        }
    }
    printf("count is %d",count);
}
```



Q2

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

```
void main() {
```

```
    int no;
```

```
    printf("Enter the number: ");
```

```
    scanf("%d", &no);
```

```
    for(int i=1;i<=no;i++) {
```

```
        for(int j=1;j<=i;j++) {
```

```
            printf("1");
```

```
        }
```

```

        if(i < no) {

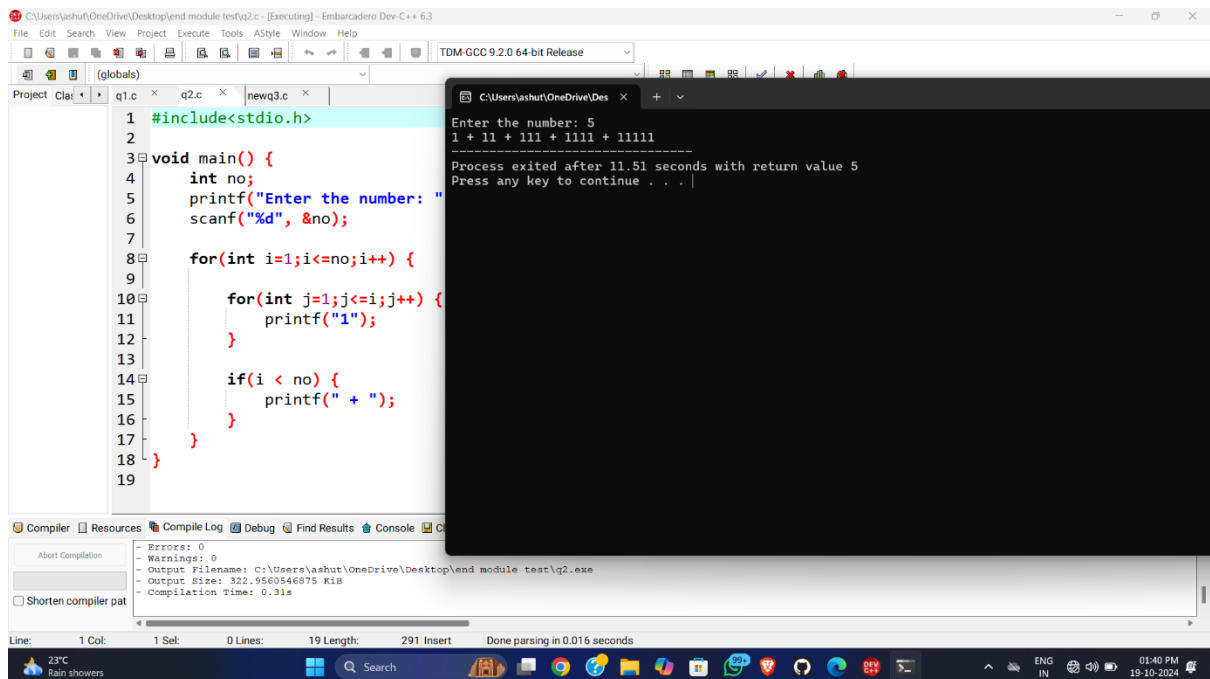
            printf(" + ");

        }

    }

}

```



Q3

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

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

```
typedef struct Music {
```

```
    int id;
```

```
    char tital[20];
```

```
    char artist[20];
```

```
    float duration;
```

```
} Music;
```

```
void hardstor(Music*arr,int size);
```

```
void stor(Music*arr, int size);
```

```
void display(Music*arr, int size);
```

```
int main() {
```

```
    Music arr[10];
```

```
    hardstor(arr, 3);
```

```
    int totalmusic = 3;
```

```
    int choice;
```

```
    do {
```

```
        printf("1. Enter new music\n");
```

```
        printf("2. Display music library\n");
```

```
        printf("3. Exit\n");
```

```
        printf("Enter your choice: ");
```

```
        scanf("%d", &choice);
```

```
        switch (choice) {
```

```
            case 1: {
```

```
                printf("Enter the count of new music = ");
```

```
                int size;
```

```
                scanf("%d", &size);
```

```
                stor(arr, size);
```

```

        totalmusic += size;
        break;
    }
    case 2: {
        display(arr, totalmusic);
        break;
    }
    case 3:
        printf("Exit\n");
        break;
}
} while (choice != 3);
}

```

```

void hardstor(Music* arr, int size) {
    arr[0].id = 1;
    strcpy(arr[0].tital, "tum hi ho");
    strcpy(arr[0].artist, "Arijit Singh");
    arr[0].duration = 3.52;

    arr[1].id = 2;
    strcpy(arr[1].tital, "ranjna");
    strcpy(arr[1].artist, "Arijit Singh");
    arr[1].duration = 4.50;
}

```

```
arr[2].id = 3;
strcpy(arr[2].tital, "channa mereya");
strcpy(arr[2].artist, "Pritam");
arr[2].duration = 3.45;
}
```

```
void stor(Music* arr, int size) {
    for (int i = 0; i < size; i++) {
        int x = 3 + i;
        printf("Enter the id = ");
        scanf("%d", &arr[x].id);
        getchar();
        printf("Enter the title = ");
        fgets(arr[x].tital, 20, stdin);
        int a = strlen(arr[x].tital);
        if (arr[x].tital[a - 1] == '\n') {
            arr[x].tital[a - 1] = '\0';
        }
        printf("Enter the artist name = ");
        fgets(arr[x].artist, 20, stdin);
        a = strlen(arr[x].artist);
        if (arr[x].artist[a - 1] == '\n') {
            arr[x].artist[a - 1] = '\0';
        }
    }
}
```

```

    }

    printf("Enter the duration = ");

    scanf("%f", &arr[x].duration);

}

}

void display(Music* arr, int size) {

    for (int i = 0; i < size; i++) {

        printf("\n ID: %d", arr[i].id);

        printf("\nTitle: %s", arr[i].tital);

        printf("\nArtist: %s", arr[i].artist);

        printf("\nDuration: %0.2f\n", arr[i].duration);

    }

}

```

The screenshot shows a C++ IDE with the following code in `newq3.c`:

```

1 #include <stdio.h>
2 #include <string.h>
3
4 typedef struct Music {
5     int id;
6     char tital[20];
7     char artist[20];
8     float duration;
9 } Music;
10
11 void hardstor(Music*arr,int size);
12 void stor(Music*arr, int size);
13 void display(Music*arr, int size);
14
15 int main() {
16     Music arr[10];
17     hardstor(arr, 3);
18     int totalmusic = 3;
19     int choice;
20

```

The console output shows the program's execution:

```

1. Enter new music
2. Display music library
3. Exit
Enter your choice: 2

ID: 1
Title: tum hi ho
Artist: Arijit Singh
Duration: 3.52

ID: 2
Title: ranjna
Artist: Arijit Singh
Duration: 4.50

ID: 3
Title: channa mereya
Artist: Pritam
Duration: 3.45
1. Enter new music
2. Display music library
3. Exit
Enter your choice: 1
Enter the count of new music = 2
Enter the id = |

```

The IDE status bar at the bottom indicates: Line: 1 Col: 1 Sel: 0 Lines: 96 Length: 2523 Insert Done parsing in 0.047 seconds. The system tray shows 23°C Rain showers, 01:41 PM, 19-10-2024.

C:\Users\ashut\OneDrive\Desktop\end module test\newq3.c - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 9.2.0 64-bit Release

(globals)

Project Clae newq3.c

```
16 Music arr[10];
17 hardstor(arr, 3);
18 int totalmusic = 3;
19 int choice;
20
21 do {
22     printf("1. Enter new music\n");
23     printf("2. Display music lib\n");
24     printf("3. Exit\n");
25     printf("Enter your choice: ");
26     scanf("%d", &choice);
27
28     switch (choice) {
29         case 1: {
30             printf("Enter the count of new music = ");
31             int size;
32             scanf("%d", &size);
33             stor(arr, size);
34             totalmusic += size;
35             break;
36         }
37     }
38 }
```

Compiler (1) Resources Compile Log Debug Find Results Console Close

Abort Compilation

Errors: 0
Warnings: 0
Output Filename: C:\Users\ashut\OneDrive\Desktop\end module test\newq3.exe
Output Size: 325.34765625 KiB
Compilation Time: 0.30s

Shorten compiler pat

Line: 15 Col: 13 Sel: 0 Lines: 96 Length: 2523 Insert Done parsing in 0.047 seconds

23°C Rain showers

Search

ENG IN 01:44 PM 19-10-2024

C:\Users\ashut\OneDrive\Desktop\end module test\newq3.c

Title: tum hi ho
Artist: Arijit Singh
Duration: 3.52

ID: 2
Title: ranjna
Artist: Arijit Singh
Duration: 4.50

ID: 3
Title: channa mereya
Artist: Pritam
Duration: 3.45

1. Enter new music
2. Display music library
3. Exit
Enter your choice: 1
Enter the count of new music = 2
Enter the id = 4
Enter the title = tu hai pani pani
Enter the artist name = honey singh
Enter the duration = 4.3
Enter the id = 5
Enter the title = kali kali julfhe
Enter the artist name = pritam
Enter the duration = 5.3
1. Enter new music
2. Display music library
3. Exit
Enter your choice: |

C:\Users\ashut\OneDrive\Desktop\end module test\newq3.c - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 9.2.0 64-bit Release

(globals)

Project Clae newq3.c

```
16 Music arr[10];
17 hardstor(arr, 3);
18 int totalmusic = 3;
19 int choice;
20
21 do {
22     printf("1. Enter new music\n");
23     printf("2. Display music lib\n");
24     printf("3. Exit\n");
25     printf("Enter your choice: ");
26     scanf("%d", &choice);
27
28     switch (choice) {
29         case 1: {
30             printf("Enter the count of new music = ");
31             int size;
32             scanf("%d", &size);
33             stor(arr, size);
34             totalmusic += size;
35             break;
36         }
37     }
38 }
```

Compiler (1) Resources Compile Log Debug Find Results Console Close

Abort Compilation

Errors: 0
Warnings: 0
Output Filename: C:\Users\ashut\OneDrive\Desktop\end module test\newq3.exe
Output Size: 325.34765625 KiB
Compilation Time: 0.30s

Shorten compiler pat

Line: 15 Col: 13 Sel: 0 Lines: 96 Length: 2523 Insert Done parsing in 0.047 seconds

23°C Rain showers

Search

ENG IN 01:44 PM 19-10-2024

C:\Users\ashut\OneDrive\Desktop\end module test\newq3.c

Enter your choice: 2

ID: 1
Title: tum hi ho
Artist: Arijit Singh
Duration: 3.52

ID: 2
Title: ranjna
Artist: Arijit Singh
Duration: 4.50

ID: 3
Title: channa mereya
Artist: Pritam
Duration: 3.45

ID: 4
Title: tu hai pani pani
Artist: honey singh
Duration: 4.30

ID: 5
Title: kali kali julfhe
Artist: pritam
Duration: 5.30

1. Enter new music
2. Display music library
3. Exit
Enter your choice: |

