

## **ASSIGNMENT**

**By**

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**Semester : 1st**

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**Model Institute of Engineering & Technology (Autonomous)**

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with “A” Grade)

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**ASSIGNMENT**

```

1 // program to check whether a given string is a pallindrome.
2
3 #include <stdio.h>
4 #include <string.h>
5
6 // Function to check whether a string is a palindrome
7 int isPalindrome(char str[]) {
8     int length = strlen(str);
9
10    // Iterate over the string
11    for (int i = 0; i < length / 2; i++) {
12        // Check if the characters at both ends of the string are equal
13        if (str[i] != str[length - i - 1]) {
14            return 0; // If the characters are not equal, return 0
15        }
16    }
17
18    return 1; // If the characters at both ends of the string are equal, return 1
19 }
20
21 int main() {
22     char str[] = "malayalam";
23
24     if (isPalindrome(str)) {
25         printf("%s is a palindrome.\n", str);
26     } else {
27         printf("%s is not a palindrome.\n", str);
28     }
29     return 0;
30 }

```

Windows PowerShell

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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\amank\.vscode\extensions\cprogram> & 'c:\Users\amank\.vscode\extensions\ms-vscode.cpptools-1.18.5-win32-x64\debugAdapters\bin\WindowsDe  
bugLauncher.exe' '--stdin=Microsoft-MIEngine-In-eyj33n4o.chv' '--stdout=Microsoft-MIEngine-Out-2z2urr3j.rxx' '--stderr=Microsoft-MIEngine-Error-nlmm  
ccbh.iz3' '--pid=Microsoft-MIEngine-Pid-0pivzhnl.0jc' '--dbgExe=C:\msys64\ucrt64\bin\gdb.exe' '--interpreter=mi'  
"malayalam" is a palindrome.
```

```
1 // program to find second largest element in an array
2
3
4 #include<stdio.h>
5 int main()
6 {
7     int arr[]={45,12,67,34,89,56};
8     int max=arr[0];
9     for (int i = 1; i < 6; i++)
10    {
11        if (arr[i]>max)
12        {
13            max=arr[i];
14        }
15    }
16    printf("Maximum element in the array: %d\n", max);
17    return 0;
18 }
```

```
PS C:\Users\amank\.vscode\extensions\cprogram> & 'c:\Users\amank\.vscode\extensions\ms-vscode.cpptools-1.18.5-win32-x64\debugAdapters\bin\WindowsDe  
bugLauncher.exe' '--stdin-Microsoft-MIEngine-In-jawwcnfj.4qc' '--stdout-Microsoft-MIEngine-Out-chgvxxkt.c13' '--stderr-Microsoft-MIEngine-Error-4eh0  
2dgs.35f' '--pid-Microsoft-MIEngine-Pid-3qthle2k.xn2' '--dbgExe=C:\msys64\ucrt64\bin\gdb.exe' '--interpreter=mi'  
Maximum element in the array: 89
```