# C PROGRAMMING ASSIGNMENT: 19

DATE: 13.01.2022

**SUBMITTED BY: -**

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**BRANCH: CSE** 

**SECTION: B22** 

**ROLL NO.: 21052258** 

1. WAP to find out the largest element present in a 5  $exttt{X}$  4 matrix . In the same fun store the largest element of each row in a 1D array

# Code:

```
#include <stdio.h>
int main()
    int m,n,a[10];
    printf("Enter the number of rows and column: \n");
    scanf("%d %d",&m,&n);
    int arr[10][10];
    printf("\nEnter the elements of the matrix: \n");
    for(int i=0;i<m;i++)</pre>
    {
        for(int j=0;j<n;j++)</pre>
            scanf("%d",&arr[i][j]);
        }
    printf("\nThe elements in the matrix are: \n");
    for(int i=0;i<m;i++)</pre>
    {
        for(int j=0;j<n;j++)</pre>
            printf("%d ",arr[i][j]);
        printf("\n");
    int i = 0, j;
    int max = 0;
    int res[m];
    while (i < m)
       for (j = 0; j < n; j++)
           if (arr[i][j] > max)
              max = arr[i][j];
           }
        res[i] = max;
        max = 0;
        i++;
    printf("Largest element in each rows are\n" );
    for(int i = 0; i < n; i++)</pre>
       printf(" %d \t", i);
```

```
printf("\n");
  for(int i = 0; i < n; i++)
  {
    printf(" %d \t", res[i]);
  }
  return 0;
}</pre>
```

```
empCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerF
Enter the number of rows and column:
5 4
Enter the elements of the matrix:
1
3
4
4
6
8
67
8
6
5
6
4
6
4
5
The elements in the matrix are:
1 2 3 4
5 3 4 6
8 5 67 8
6 5 6 4
6475
Largest element in each rows are
0
         1
                 2
                         3
4
         6
                 67
                         6
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> [
```

WAP to reverse a string

# Code:

```
include <stdio.h>
include <string.h>
void revstr(char *str1)
   static int i, len, temp;
   len = strlen(str1);
   if (i < len/2){</pre>
        temp = str1[i];
        str1[i] = str1[len - i - 1];
        str1[len - i - 1] = temp;
       revstr(str1);
   }
   int main()
        char str1[50];
       printf (" Enter the string: ");
        gets(str1);
        printf (" \n Before reversing the string: %s \n", str1);
        revstr(str1);
        printf (" After reversing the string: %s", str1);
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrice tempCodeRunnerFile.c -o tempCodeRunnerFile }; if ($?) { .\tempCodeRunnerFile.c tempCodeRunnerFile.c}

Enter the string: Som

Before reversing the string: Som

After reversing the string: moS

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```

Wap to count the numbers of vowels in the string

#### Code:

```
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```

4. Wap to find length of a string

## Code:

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\c tempCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile Enter the String: Muktesh
Length of Str is 7

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```

5. Wap to find frequency of characters in a string

#### Code:

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneD c tempCodeRunnerFile.c -o tempCodeRunnerFile }; if ($?) { .\tempCodeRunnerEnter a string: Muktesh
Enter a character to find its frequency: u
Frequency of u = 1
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```

6.Wap to find concatenation of string

#### Code:

```
#include <stdio.h>
#include <string.h>
int length(char *s)
    int k = -1;
   while (s[++k]);
    return k;
int main()
    char s1[100], s2[100], ch;
    int i, j;
   printf("Enter first string=");
    scanf("%s", s1);
    scanf("%c", &ch);
   printf("Enter second string=");
    scanf("%s", s2);
   i = 0;
    j = length(s1);
   while (s1[j++] = s2[i++]);
    printf("After concatenation:%s", s1);
    return 0;
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneI c tempCodeRunnerFile.c -o tempCodeRunnerFile }; if ($?) { .\tempCodeRunnerEnter first string=Som
Enter second string=Muktesh
After concatenation:SomMuktesh
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```

```
7. wap to find copy of a string
```

#### Code:

```
#include <stdio.h>
int main()
{
    int oldName[10], newName[10];
    printf("\nEnter the name: ");
    scanf("%s", oldName);
    printf("\nOriginal Name is: %s", oldName);
    int i = 0;
    while (oldName[i] != '\0')
    {
        newName[i] = oldName[i];
        i++;
    }
    newName[i] = '\0';
    printf("\nCopied string is: %s", newName);
}
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive c tempCodeRunnerFile.c -o tempCodeRunnerFile }; if ($?) { .\tempCodeRunnerFile
Enter the name: Som

Original Name is: Som
Copied string is: Som
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\13jan22_lab19> []
```