# C PROGRAMMING ASSIGNMENT:

14

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**SUBMITTED BY: -**

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**BRANCH: CSE** 

SECTION: B22

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#### Code;

```
#include<stdio.h>
int main(int argc, char const *argv[])
{
    int a[10],s=0;
    for (int i = 0; i < 10; i++)
    {
        printf("Enter number at %d position of array",i);
        scanf("%d",&a[i]);
        s=s+a[i];
    }
    printf("The sum is %d\n",s);
    return 0;
}</pre>
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\KIIT\Desktop\C programming\lab> cd "c:\Users\KIIT\Desktop\C
(\$?) \{ . \ 1 \}
Enter number at 0 position of array3
Enter number at 1 position of array4
Enter number at 2 position of array5
Enter number at 3 position of array6
Enter number at 4 position of array7
Enter number at 5 position of array4
Enter number at 6 position of array5
Enter number at 7 position of array6
Enter number at 8 position of array3
Enter number at 9 position of array3
The sum is 46
PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> \[
```

```
#include <stdio.h>
//reversal array
int arrayRev(int n)
   int arg1[n];
    for (int i = 0; i < n; i++)</pre>
    {
        printf("Enter element at index %d\n", i);
       scanf("%d", &arg1[i]);
    printf("\nThe original array is: \n");
   for (int i = 0; i < n; i++)
    {
       printf("%d\t", arg1[i]);
   printf("\nThe reversal array is: \n");
   for (int i = 1; i <= n; i++)
    {
        printf("%d\t", arg1[n - i]);
int main(int argc, char const *argv[])
    int p;
   printf("Enter number of elements in the array\n");
   scanf("%d", &p);
   arrayRev(p);
   return 0;
```

3.WAP to find max of 5 elements using array

```
#include <stdio.h>
int main(int argc, char const *argv[])
   int a[5], largest=0;
   for (int i = 0; i < 5; i++)</pre>
        printf("Enter element at %d index:\n", i);
       scanf("%d", &a[i]);
   for (int i = 0; i < 5; i++)</pre>
        if (a[i] > largest)
            largest = a[i];
    printf("largest:%d\n", largest);
    return 0;
```

```
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PS C:\Users\KIIT\Desktop\C programming\lab> cd "c:\Users\KIIT\Desktop\C ($?) { .\3 }
Enter element at 0 index:
2
Enter element at 1 index:
3
Enter element at 2 index:
5
Enter element at 3 index:
8
Enter element at 4 index:
6
largest:8
PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> [
```

3. WAP to check for elements if it is present in the array

```
#include <stdio.h>
//check for elements if it is present in the array
int main(int argc, char const *argv[])
    int n, p, c = 0;
   int a[50];
   printf("Enter n\n");
   scanf("%d", &n);
   for (int i = 0; i < n; i++)</pre>
    {
        printf("Enter elements at %d index:\n", i);
        scanf("%d", &a[i]);
   printf("Enter search element");
   scanf("%d", &p);
    for (int i = 0; i < n; i++)</pre>
    {
        if (p == a[i])
            printf("The element is present in index %d.\n", i);
   if (c != 0)
       return 0;
       printf("The element is not present in array");
```

```
return 0;
}
```

```
TERMINAL
Windows PowerShell
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PS C:\Users\KIIT\Desktop\C programming\lab> cd "c:\Users\KIIT\Desktop\C
($?) { .\4 }
Enter n
5
Enter elements at 0 index:
Enter elements at 1 index:
Enter elements at 2 index:
Enter elements at 3 index:
Enter elements at 4 index:
Enter search element2
The element is present in index 0.
PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> [
```

4. WAP to print Average marks using arrays

```
#include <stdio.h>

int main()
{
    int i,avg,count=0,sum=0,marks[20];
    for(i=0;i<20;i++)
    {
        printf("Enter marks: ");
        scanf("%d",&marks[i]);
        sum=sum+marks[i];
        if(marks[i]>89)
            count++;
    }
    avg=sum/20;
    printf("Average marks= %d\n",avg);
    printf("Numer of students secured 0 grade= %d\n",count);
    return 0;
}
```

```
-o Average_Marks } ; if ($?) { .\Average_Marks }
Enter marks: 40
Enter marks: 13
Enter marks: 24
Enter marks: 36
Enter marks: 74
Enter marks: 35
Enter marks: 67
Enter marks: 89
Enter marks: 34
Enter marks: 86
Enter marks: 46
Enter marks: 8
Enter marks: 5
Enter marks: 789
Enter marks: 356
Enter marks: 578
Enter marks: 87
Enter marks: 45
Enter marks: 7
Enter marks: 5
Average marks= 121
Numer of students secured O grade= 3
PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> 6
```

WAP to print sum of 3 numbers using function prototype

#### Code;

```
#include <stdio.h>

void sum()
{
    int n1,n2,n3,sum;
    printf("Enter 3 numbers: ");
    scanf("%d %d %d",&n1,&n2,&n3);
    sum=n1+n2+n3;
    printf("The sum of %d,%d and %d is %d.",n1,n2,n3,sum);
}
int main()
{
    sum();
    return 0;
}
```

# **Output**;

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

Enter 3 numbers: 3 4 6

The sum of 3,4 and 6 is 13.

PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> []
```

WAP to print X raised to Y using function prototype

#### Code:

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

void power()
{
    int n,k,ans;
    printf("Enter base: ");
    scanf("%d",&n);
    printf("Enter exponent: ");
    scanf("%d",&k);
    ans=pow(n,k);
    printf("%d raised to %d is %d.",n,k,ans);
}
int main()
{
    power();
    return 0;
}
```

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

PS C:\Users\KIIT\Desktop\C programming\lab> cd "c:\Users\KIIT\Desktop\C pro-o X_raised_to_Y }; if ($?) { .\X_raised_to_Y }
Enter base: 2
Enter exponent: 5
2 raised to 5 is 32.
PS C:\Users\KIIT\Desktop\C programming\lab\10dec21_lab14> [
```