

# PRACTICAL NUMBER 5

## C PROGRAMMING

//a. Write a program to print rollno and names of 10 students using array.

```
#include <stdio.h>

int main(void) {
    int rollno[10], i;
    char name[10][50];

    for (i = 0; i < 10; i++)
    {
        printf("\n Enter Roll of Student [%d]", i + 1);
        scanf("%d", &rollno[i]);
        printf("\n Enter Name of Student [%d]", i + 1);
        scanf("%s", &name[i]);
    }

    printf("\nDisplay Roll number and Name :");
    for (i = 0; i < 10; i++)
    {
        printf("\n Roll No : %d  Name : %s", rollno[i], name[i]);
    }

    return 0;
}
```

/\*b. Write a program to sort the elements of array in descending order\*/

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

```
int main()
```

```
{
```

```
    //Initialize array
```

```
    //int arr[] = {5, 2, 8, 7, 1};
```

```
        int length;
```

```
        //Enter the length of array
```

```
        printf("Enter the length of array : ");
```

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

```
        int arr[length];
```

```
        int temp = 0,i,j;
```

```
        //Entering elements of array
```

```
        printf("Enter elements of an array : ");
```

```
        for (i = 0; i < length; i++) {
```

```
            scanf("%d", &arr[i]);
```

```
        }
```

```
        //Displaying elements of original array
```

```
        printf("Elements of original array: \n");
```

```
        for (i = 0; i < length; i++) {
```

```
    printf("%d ", arr[i]);  
}  
  
//Sort the array in descending order  
for (i = 0; i < length; i++) {  
    for (j = i+1; j < length; j++) {  
        if(arr[i] < arr[j]) {  
            temp = arr[i];  
            arr[i] = arr[j];  
            arr[j] = temp;  
        }  
    }  
}  
printf("\n");  
//Displaying elements of array after sorting  
printf("Elements of array sorted in descending order: \n");  
for (i = 0; i < length; i++) {  
    printf("%d ", arr[i]);  
}  
return 0;  
}
```