# C-Programming Lab Sheet I Year / I Part

Faculty: Computer/Electrical/Civil

# Labsheet#6

#### **Objectives:**

- 1. To familiarized with character type array declaration and initialization.
- 2. To understand the string handling function.
- 3. To demonstrate the passing of array to a function as argument.

## Objectives #1

```
Character array:
1.1
#include<stdio.h>
#include<conio.h>
void main(){
char name[6] = \{'k', 'h', 'w', 'o', 'p', 'a'\};
printf("Contents of the array \n");
printf("%s", name);
getch();
}
1.2
#include<stdio.h>
#include<conio.h>
void main(){
char name[7]={'k','h','w','o','p','a'};
printf("Contents of the array \n");
printf("%s",name);
getch();
}
1.3
#include<stdio.h>
#include<conio.h>
#define NUM 5
#define LENGTH 10
void main(){
int j;
char name[NUM][LENGTH]={"Ram","Mohan","Shyam","Hari","Krishna"};
  for(j=0;j<NUM;j++)
  printf("%s\n",name[j]);
getch();
```

<u>Assignment 1.1:</u> Run the program 1.2 and 1.3 and note down the error and modify them to correct error. Discuss the difference between them.

<u>Assignment 1.2:</u> Note down the output of the program 3.3 and modify the program to input name of five people and display the name.

<u>Assignment 1.3:</u> WAP that will sort a list of names in alphabetical order, using string-handling functions.

### Objectives #2

#### **Array and Function:**

```
2.1
#include<stdio.h>
#include<conio.h>
void modify(int a[]);
                        /Function prototype
void main(){
int count, a[3];
printf("\n From main, before calling the function \n");
  for(count=0; count<=2; count++) {</pre>
  a[count]=count+1;
  printf("a[%d]=%d\n", count, a[count]);
  }
  modify(a);
  printf("\n From main, after calling the fuction \n");
  for(count=0;count<=2;count++) {</pre>
  printf("a[%d]=%d\n", count, a[count]);
}
void modify(int a[]){
int count;
printf("\nFrom main, after modifying the values \n");
  for(count=0; count<=2; count++)</pre>
   a[count] = -5;
   printf("a[%d]=%d\n",count,a[count]);
}
2.2
#include<stdio.h>
#include<conio.h>
#include<string.h>
int fun(char a[30]);
void main(){
int x;
char a[30];
gets(a);
x = fun(a);
printf("\%d",x);
```

```
getch();
}
int fun(char a[30]){
int i,c=0;
int l;
l=strlen(a);
  for(i=0;i<l;i++) {
   if(a[i]=='a' || a[i]=='e' || a[i]=='i' || a[i]=='o'|| a[i]=='u')
   c++;
  }
return(c);
}</pre>
```

Assignment 4.1: Using F7 run the above program and make the comments about the program.

Assignment 4.2: WAP to read set of number from the keyboard and find out the smallest elements of the array using a function.

<u>Assignment 4.3:</u> WAP to read set of n number from the keyboard and sort them in ascending order-using function.

<u>Assignment 4.3:</u> WAP to read a line of string from the user and delete all the space from the string using function.