## **Q\_NO:1**

```
#include<stdio.h>
void swap(int*ptr_1, int*ptr_2);
int main() {
    int num1, num2;
    printf("Type a number_1: ");
    scanf("%d",&num1);
    printf("Type number_2: ");
    scanf("%d",&num2);
    swap(&num1, &num2);
    printf("\nThe numbers are swapped!!!\n");
    printf("Now, number_1: %d\n",num1);
    printf("Now, number_2: %d\n",num2);
return 0;
void swap(int*ptr_1, int*ptr_2){
    int t=*ptr 1;
    *ptr 1=*ptr 2;
    *ptr 2=t;
```

```
Type a number_1: 4
Type number_2: 8

The numbers are swapped!!!
Now, number_1: 8
Now, number_2: 4
PS C:\Users\Lenovo\Desktop\C world>
```

# Q\_No:2

```
void reverse(char *str);
 #include <stdio.h>
 #include <string.h>
 int main() {
     char str [70];
     printf("Enter the sentence: ");
 fgets(str_,70,stdin);
 reverse(str_);
 printf("\nThe resultant sentence is: %s",str_);
 return 0;
 void reverse(char *str_){
     int length= strlen(str_);
     for(int i=0;i<(length/2);i++){</pre>
         char res=str_[i];
         str_[i]=str_[(length-1)-i-1];
         str_[(length-1)-i-1]=res;
PS C:\Users\Lenovo\Desktop\C world> ./a.exe
Enter the sentence: i am a palindrome "eve"
```

The resultant sentence is: "eve" emordnilap a ma i

#### **Q\_NO:3**

```
#include <stdio.h>
int main(){
   int num, i;
   printf("Enter the number of elements of array: ");
   scanf("%d", &num);
int array[num];
int *ptr=&array[0];
   for(i = 0; i < num; i++) {
     printf("Enter the elements of your array:");
scanf("%d",(ptr+i));}
   for(i = 0; i < num; i++) {
     printf("the element at index %d is: %d\n",i,*(ptr+i));
scanf("%d",(ptr+i));
  return 0;
Enter the elements of your array:8
Enter the elements of your array:0
Enter the elements of your array:4
Enter the elements of your array:5
the element at index 0 is: 1
the element at index 1 is: 8
the element at index 2 is: 0
the element at index 3 is: 4
the element at index 4 is: 5
```

### **Q NO:4**

```
#include<stdio.h>
int main()
    int array[]={0,1,3,5,7,9,6,8,2,11};
int to find=9;
int *ptr=&array[0];
for(int i=0;i<9;i++){
    if(*(ptr)==to_find){
        printf("Element found!!! %d",*(ptr));
        return *ptr;
    else{
        ptr++;
    return 0;
PS C:\Users\Lenovo\Desktop\C world> ./a.exe
Element found!!! 9
```

#### **Q NO:5**

```
#include <stdio.h>
void Add_matrix(int *array1, int *array2, int *array3, int rows, int col);
void Print matrix(int *array3, int rows, int col);
int main() {
    int array1[3][2] = \{\{3, 3\}, \{1, 2\}, \{7, 8\}\};
    int array2[3][2] = \{\{3, 3\}, \{1, 2\}, \{7, 8\}\};
    int array3[3][2];
    int rows = 3;
    int col = 2;
   Add_matrix(&array1[0][0], &array2[0][0], &array3[0][0], rows, col);
    Print_matrix(&array3[0][0], rows, col);
    return 0;
void Add_matrix(int *array1, int *array2, int *array3, int rows, int col) {
    int i, j;
    for (i = 0; i < rows; i++) {
        for (j = 0; j < col; j++) {
            *(array3 + i * col + j) = *(array1 + i * col + j) + *(array2 + i * col + j);
void Print_matrix(int *array3, int rows, int col) {
    int i, j;
    for (i = 0; i < rows; i++) {
        for (j = 0; j < col; j++) {
            printf("%d ", *(array3 + i * col + j));
        printf("\n");
```

```
6 6
2 4
14 16
PS C:\Users\Lenovo\Desktop\C world>
```