***Exercise 1 –*** *Write a user defined function to swap two numbers using call by address concept. An example would be as follows:*

```
Enter two numbers: 25 45
Before swapping 25 , 45
After Swapping 45 , 25
```

*Program –*

```
#include<stdio.h>
void swap(int a, int b)
{
     int *p,*q,temp;
     p=&a;
     q=&b;
     printf("Enter two numbers: ");
     scanf("%d%d",&a,&b);
     printf("Before swapping %d , %d\n", a,b);
     temp=*q;
     *q=*p;
     *p=temp;
     printf("After Swapping %d , %d\n", a, b);
}
int main()
{
     int a,b;
     swap(a,b);
     return 0;
}
```

*Output –*

```
Enter two numbers: 25 45
Before swapping 25 , 45
After Swapping 45 , 25
```

***Exercise 2 –*** *Store n no. of data during the execution of the program and print them in reverse order. An example would be as follows:*

```
Enter no. of elements: 6

Enter data
12
23
34
45
56
67
```

```
6 elements in the list in reverse order
67 56 45 34 23 12
```

*Program –*

```
#include<stdio.h>
#define SIZE 1000
int main()
{
    int max, a, array[SIZE];
    int *ptr;
    ptr = &array[0];
    printf("\nEnter no. of elements: ");
    scanf("%d", &max);
    printf("\nEnter data\n");
        for (a = 0; a < max; ++a)
        {
            scanf("%d", ptr);
            ++ptr;
        }
    ptr = &array[max - 1];
    printf("\n%d elements in the list in reverse order\n",
max);
    for (a = max - 1; a >= 0; a--)
    {
        printf("%d ",*ptr);
        --ptr;
    }
    return 0;
}
```

*Output –*

```
Enter no. of elements: 6

Enter data
12
23
34
45
56
67

6 elements in the list in reverse order
67 56 45 34 23 12
```