## 1. write a c program to reverse a string without using additional library functions?

```
#include <stdio.h>
#include <string.h>
void reverseString(char* str) {
     int len = 0;
     while (str[len] != '\0') {
           len++;
     }
     int start = 0;
     int end = len - 1;
     while (start < end) {
           char temp = str[start];
           str[start] = str[end];
           str[end] = temp;
           start++;
           end--;
     }
}
int main() {
     char str[100];
     printf("Enter a string: ");
     fgets(str, sizeof(str), stdin);
     if (str[strlen(str) - 1] == '\n') {
```

```
str[strlen(str) - 1] = '\0';

}

reverseString(str);

printf("Reversed string: %s\n", str);

return 0;

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## 2.C program for implementation of selection sort

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```
#include <stdio.h>
void swap(int *xp, int *yp)
{
    int temp = *xp;
    *xp = *yp;
    *yp = temp;
}
void selectionSort(int arr[], int n)
```

```
{
     int i, j, min_idx;
     for (i = 0; i < n-1; i++)
     {
           min_idx = i;
           for (j = i+1; j < n; j++)
              if (arr[j] < arr[min_idx])</pre>
                 min_idx = j;
               if(min_idx != i)
                 swap(&arr[min_idx], &arr[i]);
     }
}
void printArray(int arr[], int size)
{
     int i;
     for (i=0; i < size; i++)
           printf("%d ", arr[i]);
     printf("\n");
}
int main()
{
     int arr[] = {64, 25, 12, 22, 11};
     int n = sizeof(arr)/sizeof(arr[0]);
     selectionSort(arr, n);
     printf("Sorted array: \n");
```

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## 3.SWAP TWO NUMBERS:-

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```
include <stdio.h>
int main() {
    int a, b, temp;
    int *ptr1, *ptr2;
    printf("Enter the value of a and b: ");
    scanf("%d %d", &a, &b);
    printf("\nBefore swapping a = %d and b = %d", a, b);
    ptr1 = &a;
    ptr2 = &b;
    temp = *ptr1;
```

## 5. STUDENTS DETAILS:-

```
#include <stdio.h>
struct student {
    char name[50];
    int roll;
    float marks;
} s;
int main() {
    printf("Enter information:\n");
```

```
printf("Enter name: ");
      fgets(s.name, sizeof(s.name), stdin);
      printf("Enter roll number: ");
      scanf("%d", &s.roll);
      printf("Enter marks: ");
      scanf("%f", &s.marks);
      printf("Displaying Information:\n");
      printf("Name: ");
      printf("%s", s.name);
      printf("Roll number: %d\n", s.roll);
      printf("Marks: %.1f\n", s.marks);
      return 0;
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```

}