Name : Manasi Rathod

Roll No : 23552

* **CODE**

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <string.h>

void bubble\_sort(int \*arr, int n) {

int i, j, temp;

for (i = 0; i < n - 1; i++) {

for (j = 0; j < n - i - 1; j++) {

if (arr[j] > arr[j + 1]) {

temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

}

}

int main() {

int arr[10], i, n;

pid\_t pid;

printf("Enter the number of elements in the array (max 10): ");

scanf("%d", &n);

printf("Enter the elements of the array: ");

for (i = 0; i < n; i++) {

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

}

pid = fork();

if (pid == -1) {

printf("Fork failed.\n");

return 1;

} else if (pid == 0) {

char \*args[12];

args[0] = "display\_reverse";

for (i = 0; i < n; i++) {

char num[10];

sprintf(num, "%d", arr[i]);

args[i+1] = malloc(sizeof(char) \* (strlen(num) + 1));

strcpy(args[i+1], num);

}

args[n+1] = NULL;

execve("display\_reverse", args, NULL);

printf("Exec failed.\n");

exit(1);

} else {

bubble\_sort(arr, n);

wait(NULL);

printf("Parent process sorted array: ");

for (i = 0; i < n; i++) {

printf("%d ", arr[i]);

}

printf("\n");

}

return 0;

}

* **OUTPUT**

