H M Mythreya PES2UG20CS130 OS Assignment - 2

Task 1: Create a global array and sort it in the child process and print it in the main process. Is the output the sorted array or the original Array

```
#include<stdio.h>
#include<unistd.h>
int a[8] = \{12,56,1,25,3,6,9,7\};
void sortArray(int*);
void displayArray(int*);
int main(){
         if(fork()==0){
                  printf("\nInside Parent:");
                  displayArray(a);
         else{
                  printf("\nInside Child:");
                  sortArray(a);
                  displayArray(a);
         }
void displayArray(int *a){
         for(int i=0;i<8;i++){
                  printf("%d ",a[i]);
void sortArray(int *a){
         int temp;
         for(int i=0;i<7;i++){</pre>
                  for(int j=0;j<7-i;j++){</pre>
                           if(a[j]>a[j+1]){
                                   temp = a[j+1];
a[j+1] = a[j];
a[j] = temp;
                           }
                  }
```

The output will be the original array even if the array is a global declaration. This is because the child process gets it's own copy of data and changes to it are not reflected in the parent process.