

Querage cose, and best use. code is Olnbern in all cover - worst cover The time completely of the previoled merge sort

> Stop 2: Read the user.
>
> Stop 3: Delae and populate an array with war-input elements.
>
> Stop 4: Apply the masse soot algorithm to assange the elements in assending order.
>
> Step 5: Point the initially entered assay.
>
> Step 6: Point the assay ofter souting wants masse sext. Aim: To implement and Step 1: Staat Algerithm :

dos : t dags

## Pageam - Implementation

#include <stdio.h>

# include < conto.k>

for (int := 0: i < 0: int ) { puntf 1"\0"); puntfinder, Alia);

i = low ; merge (int AINT, int mich, int how, int high) { int 1, 6, 4, 8 [100];

d = mid + 1; k = low ;

if (12-mid && j <= high) { BDWJ=AEiJ;

```
Southed Assay: 3 4
                                                                                                                                                                                                                                                 Original Assay: 4 6
                                                                                                                                                                                                                                                                                                                                                                                                                  Enter the 9526 of the alloy: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sample Input :
                                                                                                                                                               yord magaesat (int AII, int law, int high) fint mid;
if (low < high) &
mid = (low + high) /2;
magaesat (A, Low, mid);
magaesat (A, mid+1, high);
p magaesat (A, mid, Low, high);
                                                                                                                     int main () {
                                                                                                                                                                                                                                                                               for (int := bo s i <= haghe s :++)?
A fill = 8 fill ;
                                                                                        Print f ("Enter the size of the areay: ""
                                                                                                                                                                                                                                                                                                                         while (j <-hagh) t

BIRJ=AIj];

k++;

j++;
                                    points ("Enter it d demants: \n", n);
                                                           int A for ];
                                                                          scanf ("1d", 2, );
                                                                                                                                                                                                                                                                                                                                                                                   while (4 <-mod) {
8[4] - A[4];
| k++;
| t++;
for (int i = 0 : i < n : i++) {
```

Entre

Result: Mesge Sost salgosithm was implemented and analyzed successfully. Paint Assay (A,n); getch(); setuen 0; merge sout (A,O,n-1); paint f ("Deginal Jassay:"); psint/seay (A,n): print f ("Souted Assay:");