ADAM M SANADI 4AL19CS003

C Pogam to implement merge sort.

Algorithm:-

Step1: input a[10], n

Step2: print Enter the elements

```
for(i=0; i<n; i++)
{ scanf("%d", &a[i])
  printf("%d", a[i])
}
```

Step3: repeat step2 until condition becomes false

Step4: for(i=1; i<n; i++)

```
{
  j=i;
  while (j>=1 && a[j] < a[j-1])
  {
    if (a[j] < a[j-1]),
    {
      de = a[j]
      a[j] = a[j-1]
      a[j-1] = de
    }
    j = j-1
  }
}
```

step5: repeat step4 until condition become false.

Step6: print after merge sort

Step7: for(i=0; i<n; i++)

```
{
  printf("%d\t", a[i]);
}
```

Step 8: repeat step 7 until test condition becomes false

step 9: return 0.

Step 10: Stop.

Camlin

Flowchart :-