```
//Marge sort
#include<iostream.h>
#include<conio.h>
#include<stdlib.h>
#include<timer.h>
int arr[1000];
void MERGE(int low,int mid,int high)
    int i=low,j=mid+1,k=low;
    int brr[1000];
    while(i<=mid && j<=high)
         if(arr[i]<arr[j])</pre>
         {
             brr[k]=arr[i];
             i++;
         }
         else
         {
             brr[k]=arr[j];
             j++;
         k++;
    while(i<=mid)
         brr[k]=arr[i];
         j++;
         k++;
    while(j<=high)
         brr[k]=arr[j];
         j++;
         k++;
    for(k=low;k<=high;k++)
          arr[k]=brr[k];
}
void MERGE_SORT(int low,int high)
      if(low!=high)
    int mid=(low+high)/2;
    MERGE_SORT(low,mid);
    MERGE_SORT(mid+1,high);
    MERGE(low,mid,high);
      }
}
void main()
```

```
clrscr();
Timer T;
     int n;
     cout<<"Enter size of an array: ";
     cin>>n;
     for(int i=0;i<n;i++)
          arr[i]=random(1000);
     }
    T.start();
MERGE_SORT(0,n-1);
     T.stop();
     cout<<"After sorted Elements : "<<endl;
     for(i=0;i<n;i++)
     {
        cout<<arr[i]<<"\t";
    }
    cout<<"\n Exact time of Execution : "<<T.time();
}
```