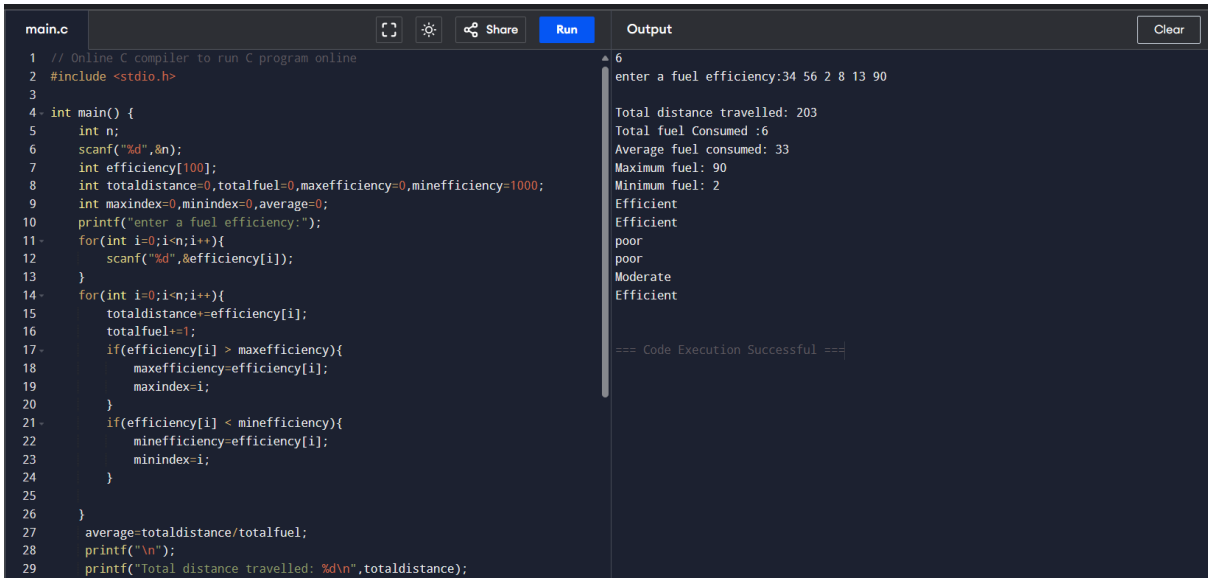
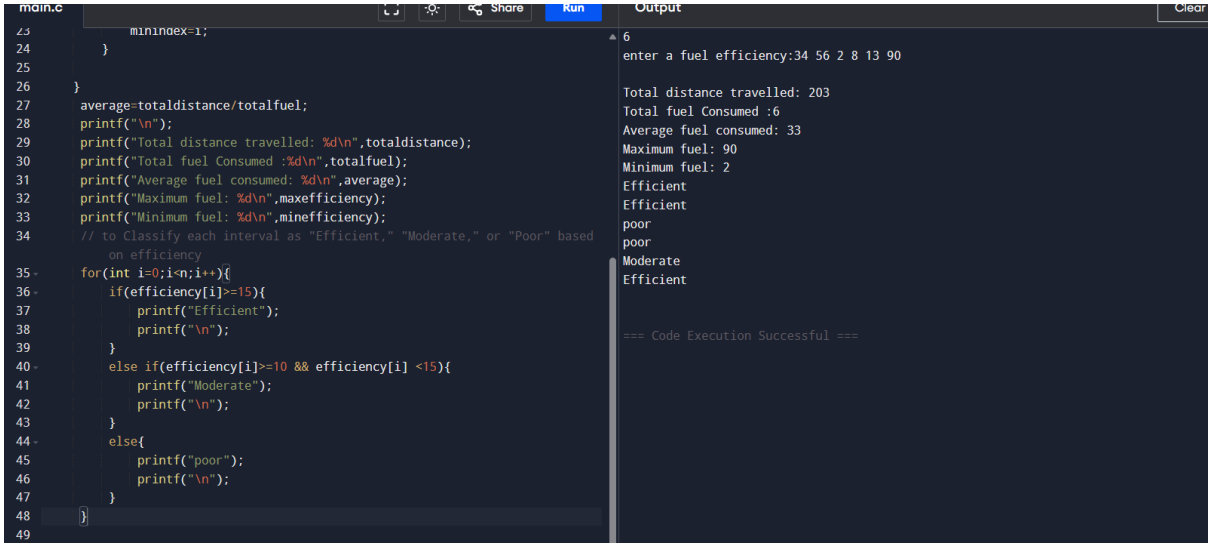
Assesment -1:

```
// Online C compiler to run C program online
#include <stdio.h>

int main() {
   int n;
   scanf("%d",&n);
   int efficiency[100];
   int totaldistance=0,totalfuel=0,maxefficiency=0,minefficiency=1000;
   int maxindex=0,minindex=0,average=0;
   printf("enter a fuel efficiency:");
   for(int i=0;i<n;i++){
      scanf("%d",&efficiency[i]);
   }
   for(int i=0;i<n;i++){
      totaldistance+=efficiency[i];
      totalfuel+=1;
      if(efficiency[i] > maxefficiency){
         maxefficiency=efficiency[i];
         maxindex=i;
      }
      if(efficiency[i] < minefficiency){
         minefficiency=efficiency[i];
         minindex=i;
      }

   }
    average=totaldistance/totalfuel;
    printf("\n");
    printf("Total distance travelled: %d\n",totaldistance);
    printf("Total fuel Consumed :%d\n",totalfuel);
```

```
    printf("Average fuel consumed: %d\n",average);
    printf("Maximum fuel: %d\n",maxefficiency);
    printf("Minimum fuel: %d\n",minefficiency);
    // to Classify each interval as "Efficient," "Moderate," or "Poor" based on efficiency
    for(int i=0;i<n;i++){
       if(efficiency[i]>=15){
          printf("Efficient");
          printf("\n");
       }
       else if(efficiency[i]>=10 && efficiency[i] <15){
          printf("Moderate");
          printf("\n");
       }
       else{
          printf("poor");
          printf("\n");
       }
    }

}
```




main.c
Share
Run
Output
Clear
minIndex=i;
}
}
average=totaldistance/totalfuel;
printf("\n");
printf("Total distance travelled: %d\n",totaldistance);
printf("Total fuel Consumed :%d\n",totalfuel);
printf("Average fuel consumed: %d\n",average);
printf("Maximum fuel: %d\n",maxefficiency);
printf("Minimum fuel: %d\n",minefficiency);
// to Classify each interval as "Efficient," "Moderate," or "Poor" based on efficiency
for(int i=0;i<n;i++){
if(efficiency[i]>=15){
printf("Efficient");
printf("\n");
}
else if(efficiency[i]>=10 && efficiency[i] <15){
printf("Moderate");
printf("\n");
}
else{
printf("poor");
printf("\n");
}
}
6
enter a fuel efficiency:34 56 2 8 13 90
Total distance travelled: 203
Total fuel Consumed :6
Average fuel consumed: 33
Maximum fuel: 90
Minimum fuel: 2
Efficient
Efficient
poor
poor
Moderate
Efficient
=== Code Execution Successful ===