Ex1: Parallelize the following code using OpenMP

```
for (int i = 0; i < n; ++i)
      sum += arr[i];
```

Ans Steps:

1. The following code combines multiple iterations into a final outcome 'sum'.

2. Adding reduction clause is necessary to parallelize.

3. 'reduction' should be added on 'sum' with '+' operator.

Ex2:

…

…

…

Test Input: Now, parallelize following code using OpenMP:

```
for (int i = 0; i < n; ++i)
      R23 = 0.50 * R23 ;
      T23 = 2.0 * T23 ;
}
```


LLM

Parallel code