Tasks

Task0:
-Introduce the **parallel loop** and **kernels** directives.
-Vary the number of workers (**num_workers**)for a fixed **vector_length(32) from 2 to 32.**

Task1
-Parallelilse loops and **c**ompute the max of vector elements using openacc directive.
-Collapse many loops into a single loop.
-Compare **parallel loop** with **kernels for the above two points.**

Task2
-Run without specifying the clause in a subroutine
-Introduce the correct the clause to offload a function/subroutine

Task3 (structured data)
-Run the code on the host to check the result.
-Offload arrays to GPU-device.
-Copy data back to the CPU-host.
-Introduce the correct directive to take into account the updated array.

Task4 (unstructured data)
-Offload data to the device using the same procedure as in Task3.
-Offload data using unstructured data

Task5 (atomic)
-Run the code in a serial form.
-Introduce parallel loop and data locality.
-Eliminate dependencies.

Task6: Final application: gprof, accelerating, nvprof, nsys