**Assignment1 Journal**

Varun Anish Reddy(Z1887739)

Siva Krishna Kamepalli(Z1888059)

In this case we have to find the submarine and carrier in the gird. A method is used to read the input file and get the coordinates and divide the coordinates. For each game it searches the ships place in the grids using three search methods. They are Horizontal Search, Random Search and Strategy Search. In Horizon search the search happens row by row. In Random Search it generates random number and if it matches the all of ship positions then returns the n.o of cells traversed. Where as in Strategy Search it searches for the elements by looking at its top, bottom,left,right positions.

This Design pattern has benefits as it is flexible as we can enhance it by adding new strategies and methods without removing or changing the old ones .So strategic design pattern has been implemented in this case