[](http://www.google.co.uk/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&docid=FaPToTvgPfLBEM&tbnid=dc1pqVpmSAsPCM:&ved=0CAUQjRw&url=http://www.brandsoftheworld.com/logo/coventry-university-0&ei=SDSxU9bXIc-M7AaJ2oCIDQ&bvm=bv.69837884,d.ZWU&psig=AFQjCNEM_Yy5EWf9KGLPZHh2N6jdtLbD4A&ust=1404208569513592)

**104KM Enterprise Information Systems**

**Tutorial**

**Objective**

Entity Relationship Diagram

**Problem Description:**

Her Majesty’s Coastguard operates a number of search and rescue helicopter bases located across the British coastline. A unique number identifies each search and rescue base. The address and contact number for each base are also recorded. Each base employs at least one or more senior helicopter pilots and each senior helicopter pilot belongs to only one base. A senior helicopter pilot may pilot one or more helicopters or may not pilot any helicopter. Information such as number, name, nationality and contact number are stored for each senior helicopter pilot. Each helicopter has a unique registration code, name and make. A helicopter needs at least one senior pilot to be flown. Whenever a senior pilot flies a helicopter on a rescue mission the date and location of the rescue mission associated with the helicopter flight are also recorded.

**Task 1:** Identify main entities for this problem.

**Task 2:** For each entity identify the possible attributes and indicate the identifier for each entity.

**Task 3:** Identify the main relationships between the entities and their cardinalities.

**Note** that you can either draw the ER diagram by hand on paper, using MS Word, or any software package you want to use.

/end/