**Software development life cycle**

**What is it?**

Software is like a living animal in that I goes through a variety of stages in its lifetime

**Stages:**

1. Identify the problem to solve. Programs/code is used to solve problems. You can’t solve a problem unless you understand it first. You can use a PDT during this stage. It stands for: **Problem Definition Table**.
2. Develop the algorithm –> use 3 tools: **1. IPO chart. 2. Flow chart. 3. Pseudocode.**
3. Implement the algorithm -> take your pseudocode and write it in your language of choice.
4. Test the algorithm/code -> Look for errors. Both syntax and logic.
5. Maintenance -> over the course of its lifetime, the program i.e. the solution is updated to be better. Ex) More efficient, more features etc.
6. Obsolescence -> The software is no longer useful and is commonly replaced by something else.