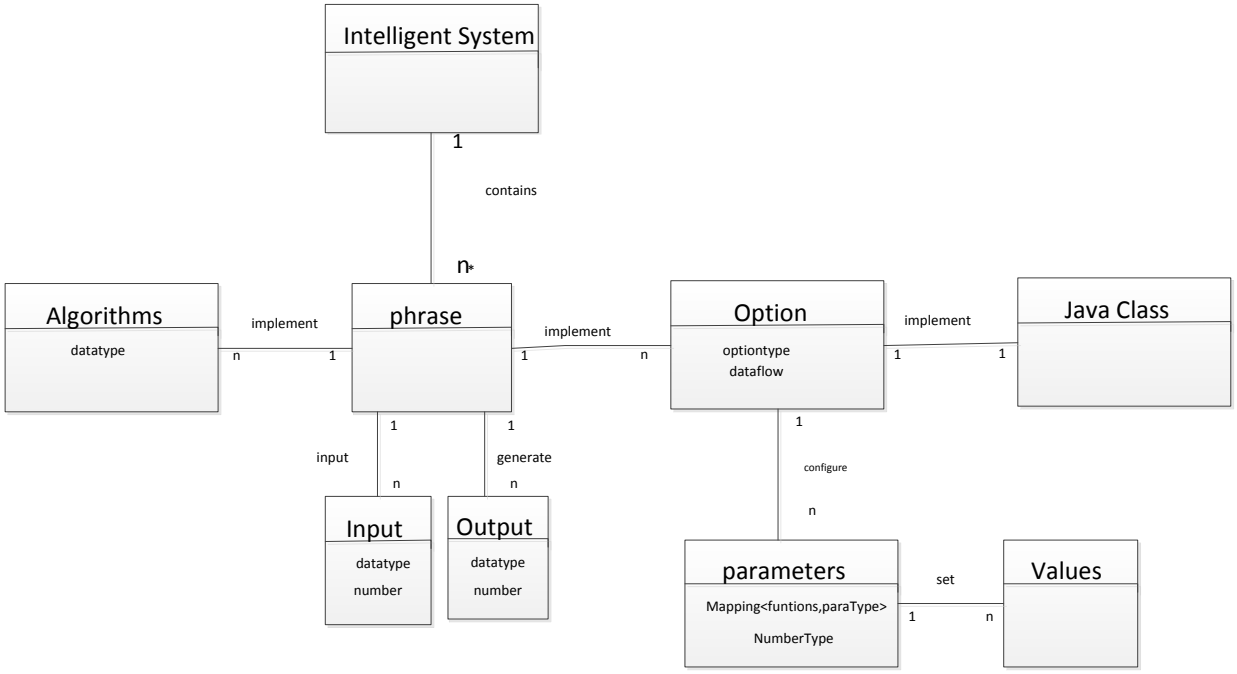
Task 1.1

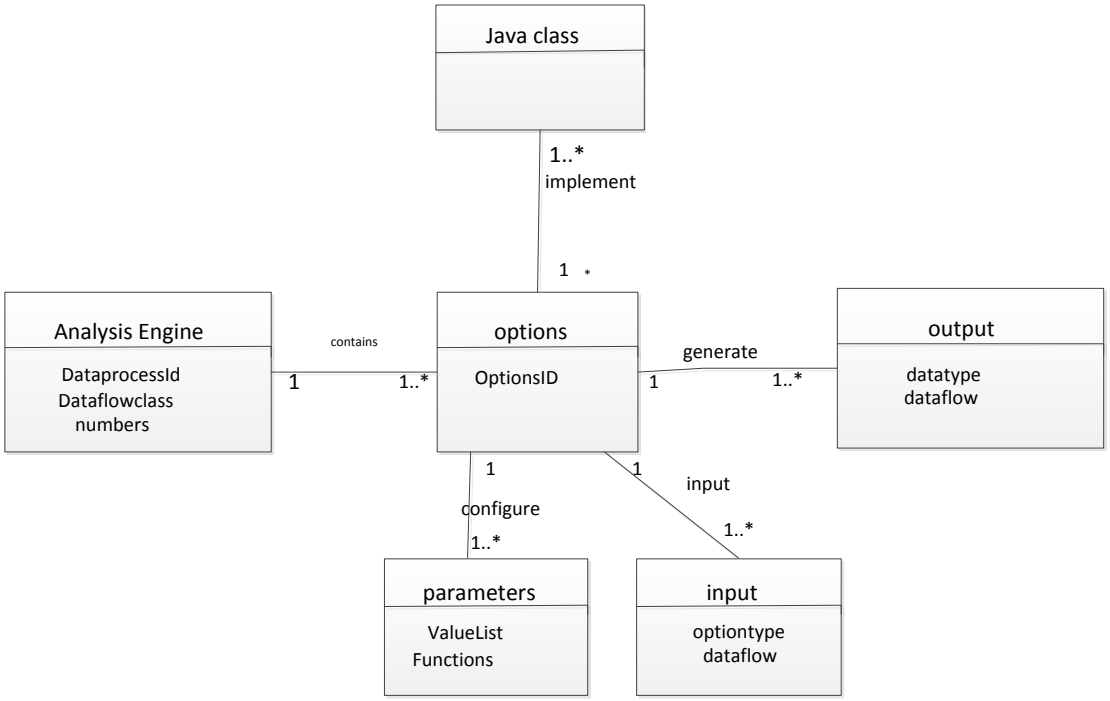
In this Task, I make a domain diagram to illustrate the whole relationship of each section.

1. Intelligent System contains data processing phrases, the relationship is Contain.
2. Each phase accepts certain data types as input and produces certain data types as output. This mean input should be a part that put into each phrase and so does output.
3. Each phase can be implemented by any number of algorithms or options. This mean algorithms and options should be here as parts to implement the phrase.
4. Each option is implemented by a specific Java class. Each option also configured by parameters. Here we have choices, we can put the value into the parameters and be an attribute or set it as a class.



Task 1.2

1. An Analysis Engine contains options.
2. Each option can generate outputs and inputs.
3. The same as task 1.1, it also use parameters to configure the options.
4. Options could be implemented by the Java Class



Task 1.3

The Sequence diagram as follows. I put up with three classes in this program.

1. First user instantiates the engines to the intelligent system.
2. Then the intelligent system will send request to the engines in order to get the right engine ”read data, write data, copy data, and so on”.
3. When engines are invoked and can be generate a pointer associate with certain information request(In this task, it’s “reading” from the information)
4. The pointer generated in engines will get its instance when acquire the reading information. The instance can be an serious engines that contains the reading information and return to the intelligent system.