# Big Data and Functional programming

|  |  |
| --- | --- |
| What do we mean by Immutability? |  |
| What are Side effects? |  |
| What is Statelessness? |  |
| What is Function application? |  |
| What is a Graph schema? |  |
| What is Partial function application? Give an example |  |
| What is the domain of a function? |  |
| What is the codomain of a function? |  |
| What is a First class object? |  |
| What are the characteristics of big data |  |
| What is the fact-based model? |  |
| Why is functional programming good for distributed processing of big data? |  |
| What are the features of functional programming? |  |
| What is a higher order function? |  |

# List Processing – Write down example

|  |  |
| --- | --- |
| returns the first element in a list |  |
| Return all but the first element in a list |  |
| Return the length of a list |  |
| Set up an empty list |  |
| Check to see if a list is empty |  |
| Append to a list |  |
| Prepend to a list |  |

# Higher order functions

|  |  |  |
| --- | --- | --- |
|  | **Explanation** | **Example** |
| Map |  |  |
| Filter |  |  |
| Fold |  |  |

|  |  |  |
| --- | --- | --- |
|  | **Explanation** | **Example** |
| First class object |  |  |
| Function type |  |  |
| Function application |  |  |
| Partial function application |  |  |
| Composition of functions |  |  |