

## Assignment 1

### 1. Create an index hiking. (use default setting of 5 shards and 1 replica)

```
PUT hiking1
{
  "settings": {
    "index": {
      "number_of_shards" : 5,
      "number_of_replicas" : 1
    }
  }
}
```

### 2. Add one or more documents in the index created consisting the following fields:

- hiked\_on (with date value of format yyyy/MM/dd, example “2019/01/26”)
- coordinator (with string value, example “Ruby Shrestha”)
- total\_students (with integer value, example 12)
- cost (with floating point value, example 3456.67)
- bus\_booked (with boolean, example true/false)
- checklist (with array of string, example [“a”, “b”])
- test\_field (any kind of value you want)

```
PUT hiking1/_doc/1
{
  "hiked_on": "2019/01/31",
  "co-ordinator": "Shreeya Pandey",
  "total_students": 12,
  "cost": 4700.50,
  "bus_booked": true,
  "checklist": ["bus", "fuel"],
  "field_test": true
}
```

### 3. Practice retrieving documents by various methods shown in examples.

```
GET hiking1/_doc/1
```

```
GET hiking1/_doc/_search
```

```
GET hiking1/_doc/1/_source
```

```
GET hiking1/_doc/1?_source_include=co-ordinator,total_students
```

```
GET hiking1/_doc/1?_source_exclude=field_test
```

```
GET hiking1/_doc/1?_source=false
```

**4. Update any inserted document by adding a new field without using script. (Related to normal update)**

POST hiking1/\_doc/1/\_update

```
{"doc": {"food_taken":["Chips","Biscuits"]}}
```

GET hiking1/\_doc/1

**5. Update any inserted document to add a new field and remove field added in (4) at the same time using script. (Related to scripted update)**

POST hiking1/\_doc/1/\_update

```
{
  "script": {
    "lang": "painless",
    "source": ""
    ctx._source.hike_duration='5 hrs';
    ctx._source.remove('food_taken');
    ""
  }
}
```

**6. Update any field of any inserted document (say total\_students) to change its value. Make use of params. (Related to scripted update)**

POST hiking1/\_doc/1/\_update

```
{
  "script": {
    "lang": "painless",
    "source": "ctx._source.total_students+=params.val",
    "params": {
      "val":2
    }
  }
}
```

GET hiking1/\_doc/1

**7. Use loop and condition to carry out any operation in any inserted document (Related to scripted update)**

POST hiking1/\_doc/1/\_update

```
{
  "script": {
    "lang": "painless",
    "source": """
    for(int i=0;i<5;i++){
      String val="food"+i;
      if(!ctx._source.checklist.contains(val)){
        ctx._source.checklist.add(val)
      }
    }
    """
  }
}
```

GET hiking1/\_doc/1/