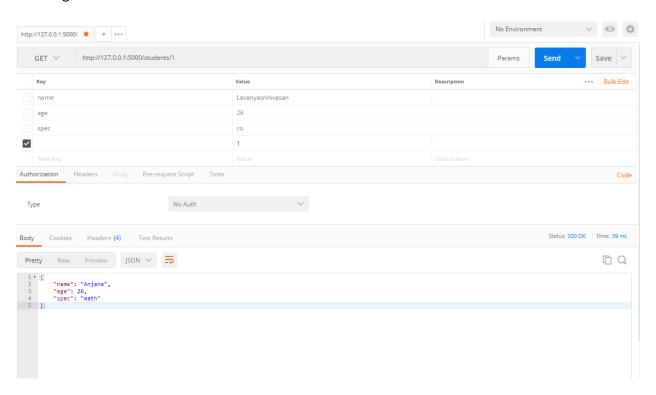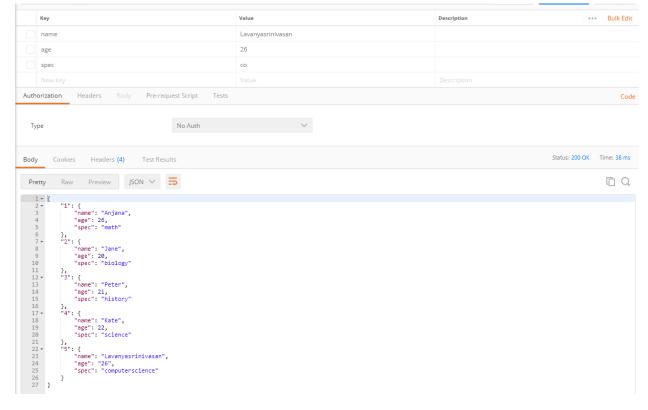CLASSLAB2

```python
from flask import Flask
from flask_restful import Resource, Api, reqparse
app = Flask(__name__)
api = Api(app)

STUDENTS = {
 '1': {'name': 'Anjana', 'age': 26, 'spec': 'math'},
 '2': {'name': 'Jane', 'age': 20, 'spec': 'biology'},
 '3': {'name': 'Peter', 'age': 21, 'spec': 'history'},
 '4': {'name': 'Kate', 'age': 22, 'spec': 'science'},
}
class StudentsList(Resource):
 def get(self, student_id):
  if student_id not in STUDENTS:
    return "Not found", 404
  else:
    return STUDENTS[student_id]

 parser = reqparse.RequestParser()

 def post(self,student_id):
  parser = reqparse.RequestParser()
  parser.add_argument("name")
  parser.add_argument("age")
  parser.add_argument("spec")
  args = parser.parse_args()
  student_id = int(max(STUDENTS.keys())) + 1
  student_id = '%i' % student_id
  STUDENTS[student_id] = {
  "name": args["name"],
  "age": args["age"],
  "spec": args["spec"],
 }
  return STUDENTS[student_id], 201

 def put(self, student_id):
  parser = reqparse.RequestParser()
  parser.add_argument("name")
  parser.add_argument("age")
  parser.add_argument("spec")
  args = parser.parse_args()
  if student_id not in STUDENTS:
   return "Record not found", 404
  else:
```

```python
    student = STUDENTS[student_id]
    student["name"] = args["name"] if args["name"] is not None else student["name"]
    student["age"] = args["age"] if args["age"] is not None else student["age"]
    student["spec"] = args["spec"] if args["spec"] is not None else student["spec"]
    return student, 200

  def delete(self, student_id):
    if student_id not in STUDENTS:
      return "Not found", 404
    else:
      del STUDENTS[student_id]
    return '', 204
api.add_resource(StudentsList, '/students/<student_id>')


if __name__ == "__main__":
  app.run(debug=True)
```
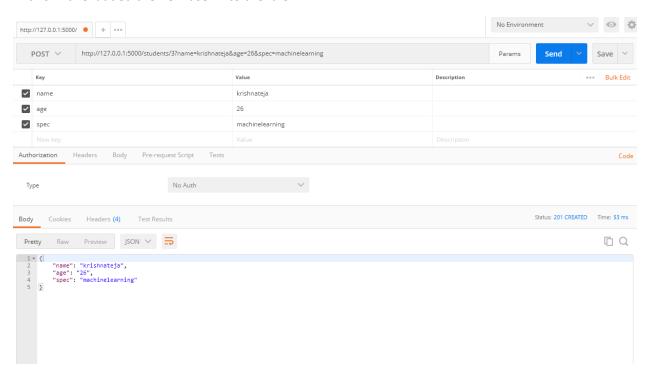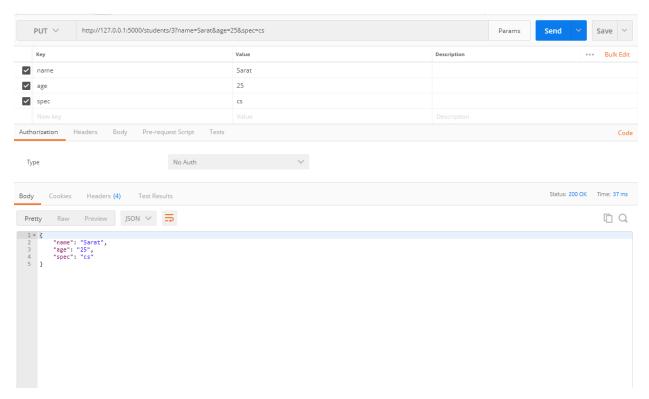
Get Method:
Getting the values of 1st student


```json
{
    "name": "Anjana",
    "age": 26,
    "spec": "math"
}
```

Key	Value	Description	···	Bulk Edit
☐ name	Lavanyasrinivasan			
☐ age	26			
☐ spec	co			
New key	Value	Description		

Authorization	Headers	Body	Pre-request Script	Tests		Code

Type   [No Auth   ∨]

Body	Cookies	Headers (4)	Test Results		Status: 200 OK Time: 38 ms

Pretty   Raw   Preview   [JSON ∨]   ⇥

```json
{
    "1": {
        "name": "Anjana",
        "age": 26,
        "spec": "math"
    },
    "2": {
        "name": "Jane",
        "age": 20,
        "spec": "biology"
    },
    "3": {
        "name": "Peter",
        "age": 21,
        "spec": "history"
    },
    "4": {
        "name": "Kate",
        "age": 22,
        "spec": "science"
    },
    "5": {
        "name": "Lavanyasrinivasan",
        "age": "26",
        "spec": "computerscience"
    }
}
```

Post:

In this I have added the new user into the id:3

http://127.0.0.1:5000/   No Environment

POST ∨   http://127.0.0.1:5000/students/3?name=krishnateja&age=26&spec=machinelearning   Params Send ∨ Save ∨

Key	Value	Description	···	Bulk Edit
☑ name	krishnateja			
☑ age	26			
☑ spec	machinelearning			
New key	Value	Description		

Authorization	Headers	Body	Pre-request Script	Tests		Code

Type   [No Auth   ∨]

Body	Cookies	Headers (4)	Test Results		Status: 201 CREATED Time: 53 ms

Pretty   Raw   Preview   [JSON ∨]   ⇥

```json
{
    "name": "krishnateja",
    "age": "26",
    "spec": "machinelearning"
}
```

PUT:Updated the id :3 Values into new values

	Key	Value	Description		Bulk Edit
☑	name	Sarat			
☑	age	25			
☑	spec	cs			
	New key	Value	Description		

PUT — http://127.0.0.1:5000/students/3?name=Sarat&age=25&spec=cs — Params — Send — Save

Authorization Headers Body Pre-request Script Tests Code

Type   No Auth

Body Cookies Headers (4) Test Results   Status: 200 OK   Time: 37 ms

Pretty Raw Preview JSON

```
1  {
2      "name": "Sarat",
3      "age": "25",
4      "spec": "cs"
5  }
```

Delete: Elements is deleted of id:2

DELETE — http://127.0.0.1:5000/students/2 — Params — Send — Save

	Key	Value	Description		Bulk Edit
☐	age	25			
☐	spec	cs			
	New key	Value	Description		

Authorization Headers Body Pre-request Script Tests Code

Type   No Auth

Body Cookies Headers (3) Test Results   Status: 204 NO CONTENT   Time: 41 ms

Pretty Raw Preview JSON

As we deleted the element with id:2 when we trying to retrieve the information it is saying not found