q-1 Create a simple REST ful service in Spring Boot which returns the Response "Welcome to spring boot".

```
package com.example.demo.q1;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class as2q1 {
    @GetMapping(path="/Welcome-Page")
    public String welcome(){
        return "Welcome to Spring Boot";
    }
}
```



q-2 Create an Employee Bean(id, name, age) and service to perform different operations related to employee.

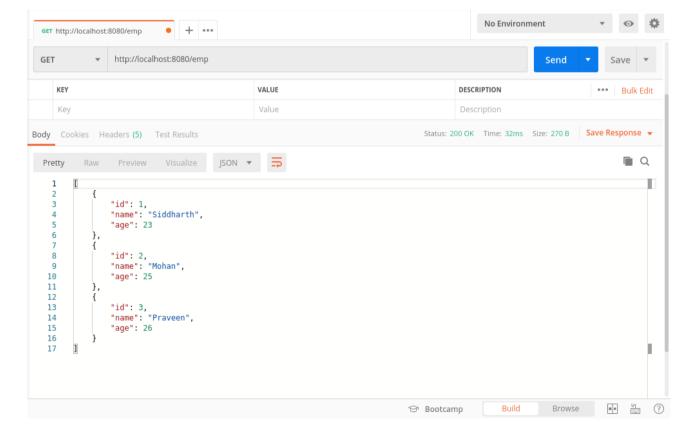
```
package com.example.demo.q2;
  ort javax.validation.constraints.Size;
oublic class q2emp {
    private Integer id;
    @Size (min=2)
    private String name;
    private Integer age;
    protected q2emp()
    public q2emp(Integer id, String name, Integer age) {
        this.name = name;
        this.age = age;
    public Integer getId() {
    public void setId(Integer id) {
        this.id = id;
    public String getName() {
    public void setName(String name) {
        this.name = name;
    public Integer getAge() {
    public void setAge(Integer age) {
        this.age = age;
    @Override
    public String toString() {
```

```
", age=" + age +
'}';
}
```

q-3 Implement GET http request for Employee to get list of employees

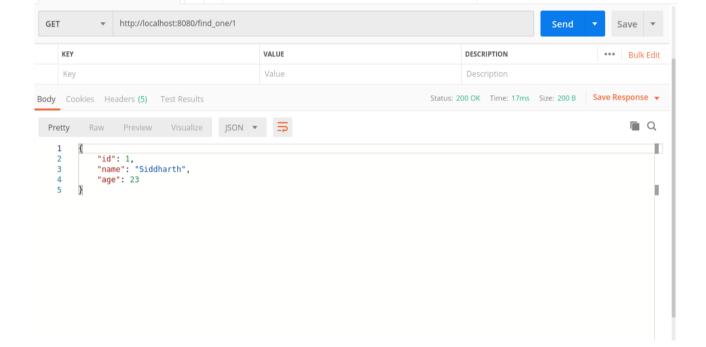
```
public class q2empdata {
    private static int usercount=3;
    private static List<q2emp> emp=new ArrayList<>();
    static
    {
        emp.add(new q2emp(1, "Siddharth", 23));
        emp.add(new q2emp(2, "Mohan", 25));
        emp.add(new q2emp(3, "Praveen", 26));
    }
    public List<q2emp> findAll()
    {
        return emp;
    }
}
```

```
public class q2empmethods {
    @Autowired
    private q2empdata data;
    @GetMapping("/emp")
    public List<q2emp> retrieveAllEmp()
    {
        return data.findAll();
    }
}
```



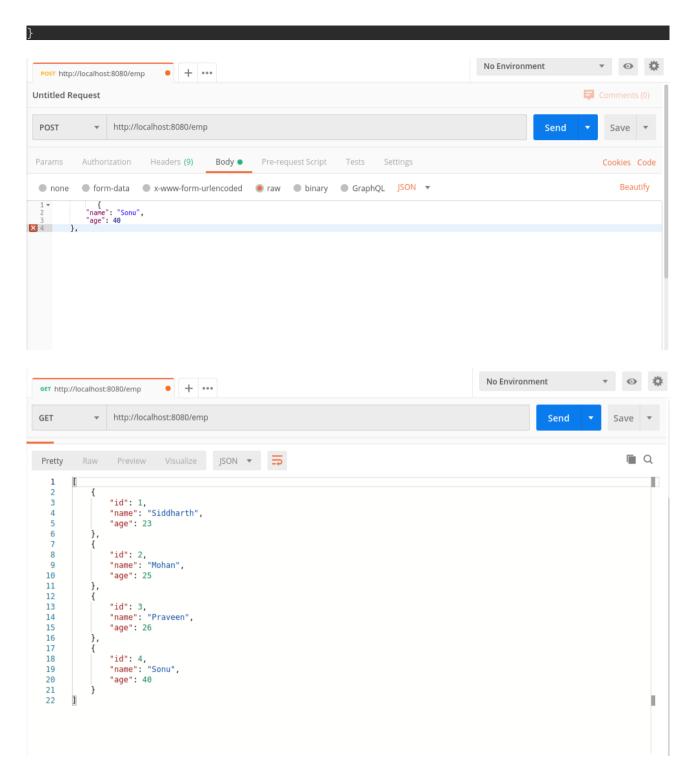
q-4 Implement GET http request using path variable top get one employee

```
public q2emp find One(int id)
{
    for(q2emp e :emp) {
        if(e.getId()==id)
        {
            return e;
        }
    }
    return null;
}
```



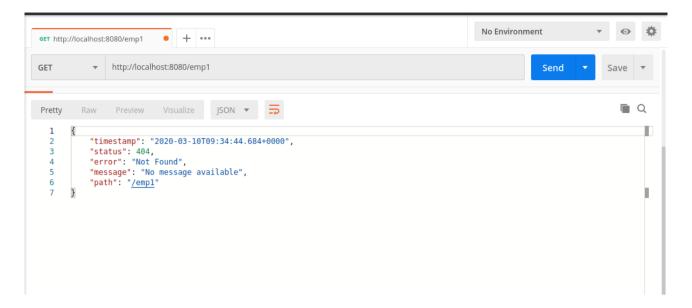
q-5 Implement POST http request for Employee to create a new employee.

```
public q2emp save_emp(q2emp e)
{
    if(e.getId()==null)
    {
        e.setId(++usercount);
    }
    emp.add(e);
    return e;
}
```



q-6 Imploement Exception Handling for resource not found

```
package com.example.demo.q2;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.ResponseStatus;
@ResponseStatus(HttpStatus.NOT_FOUND)
public class exception_handel extends RuntimeException {
    public exception_handel(String message) {
        super(message);
    }
    /* @Override
    protected ResponseEntity<Object> myexception()*/
}
```



q-7 Implement DELETE http request for Employee to delete employee

```
public q2emp deleteById(int id)
{
    Iterator<q2emp> itr=emp.iterator();
    while(itr.hasNext())
    {
        q2emp emp=itr.next();
        if(emp.getId()==id)
        {
            itr.remove();
            return emp;
        }
    }
    return null;
}
```

```
@DeleteMapping("/del/{id}")
public void deleteusr(@PathVariable int id)
{
    q2emp e=data.deleteById(id);
    if(e==null)
    {
        throw new exception_handel("id"+id);
    }
}
```

```
| Send | Save | Preview |
```

q-8 Implement PUT http request for Employee to update employee q-9 Apply validation while create a new employee using POST http Request.

See q2

q-10 Configure actuator in your project to check the health of application and get the information about various beans configured in your application

