



Program No:	24
Roll No:	1525
Title of Program:	Spring Boot and RESTful Web Services
Objective :	1. Write a program to create a simple Spring Boot application that prints a message. 2. Write a program to demonstrate Database Connection with spring boot.

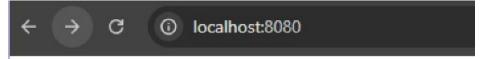
## **Source Code:**

### **GreetingController.java**

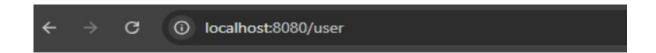
```
package edu.met.p1;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class GreetingController {
    @GetMapping("/")
public String welcomeMeassage()
    {
    return "<html><body>Welcom to MET</body></html>";
}
    @GetMapping("/user")
public String welcomeMeassage1()
    {
    return "<html><body>Welcom to MET:Bhairav </body></html>";
}
}
```



### **OUTPUT**:



# **Welcome to MET:**



# Welcome to MET: Bhairav

### Product.java

```
package edu.met.p1;
public class Product {
  int pid;
  String pname;
  int price;
public int getPid() {
  return pid;
  }
  public void setPid(int pid) {
  this.pid = pid;
  }
  public String getPname() {
  return pname;
  }
```



```
public void setPname(String pname) {
this.pname = pname;
}
public int getPrice() {
return price;
}
public void setPrice(int price) {
this.price = price;
public Product(int pid, String pname, int price) {
super();
this.pid = pid;
this.pname = pname;
this.price = price;
public Product() {
super();
// TODO Auto-generated constructor stub
}
}
ProductRowMapper.java
package edu.met.p1;
import java.sql.ResultSet;
import java.sql.SQLException;
import org.springframework.jdbc.core.RowMapper;
public class ProductRowMapper implements RowMapper<Product> {
@Override
public Product mapRow(ResultSet rs, int rowNum) throws SQLException {
// TODO Auto-generated method stub
Product p1=new Product();
p1.setPid(rs.getInt(1));
p1.setPname(rs.getString(2));
p1.setPrice(rs.getInt(3));
return p1;
}
}
```



```
ProductController.java
package edu.met.p1;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.bind.annotation.RequestMethod;
@Controller
@RestController
public class ProductController {
@Autowired
ProductDao pd;
@GetMapping("/product")
public List<Product> getALLProducts(){
return pd.getAll();
@RequestMapping(value="/product/{id}",method = RequestMethod.GET)
public @ResponseBody List<Product> getById(@PathVariable("id")String id)
return pd.getById(id);
@RequestMapping(value="/product/del/{id}",method = RequestMethod.DELETE)
public @ResponseBody int delById(@PathVariable("id")String id)
return pd.delById(id);
}
}
ProductDao.java
package edu.met.p1;
```

import java.util.List;



```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.stereotype.Repository;
@Repository
public class ProductDao {
@Autowired
JdbcTemplate jdbcT;
//fetch all rows
public List<Product> getAll()
String sql="select * from products";
return jdbcT.query(sql, new ProductRowMapper());
public List<Product> getById(String id)
String sql="select * from products where pid="+Integer.parseInt(id);
return jdbcT.query(sql, new ProductRowMapper());
}
public int delById(String id)
String sql="delete from products where pid="+Integer.parseInt(id);
return jdbcT.update(sql);
}
}
```

OUTPUT:



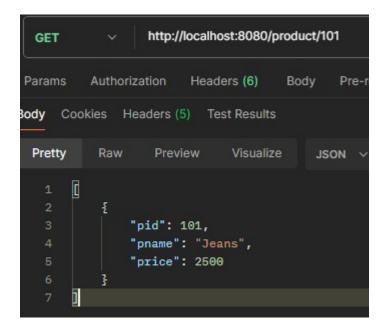
### **GETALL:**



```
← → C
           (i) localhost:8080/produc
Pretty-print 🗹
   "pid": 101,
    "pname": "Jeans",
    "price": 2500
   "pid": 103,
    "pname": "T shirt",
    "price": 3000
   "pid": 103,
    "pname": "T shirt",
    "price": 3000
  },
{
   "pid": 103,
    "pname": "T shirt",
    "price": 3000
```



### **GET BY ID**





### **Delete By ID**

