



Program No:	24
Roll No:	1524
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:

1. Write a program to create a simple Spring Boot application that prints a message.

GreetingController.java

```
package edu.met.p1;
```

import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RestController;

@RestController

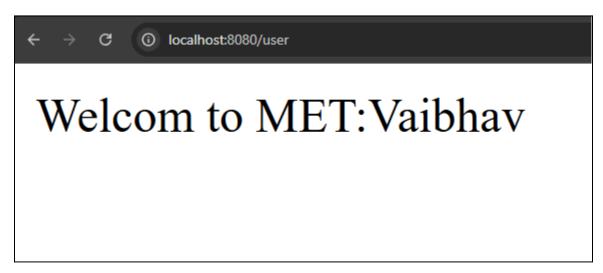
```
public class GreetingController {
          @GetMapping("/")
          public String welcomeMeassage()
          {
               return "<html><body>Welcom to MET</body></html>";
        }
          @GetMapping("/user")
          public String welcomeMeassage1()
          {
                return "<html><body>Welcom to MET:Vaibhav</body></html>";
        }
}
```





OUTPUT:







}

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2. Write a program to demonstrate Database Connection with spring boot. 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));
              pl.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.RestController;
```

```
@Controller
@RestController
public class ProductController {
     @Autowired
     ProductDao pd;
     @GetMapping("/product")
     public List<Product> getALLProducts(){
```



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```
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());
```



}

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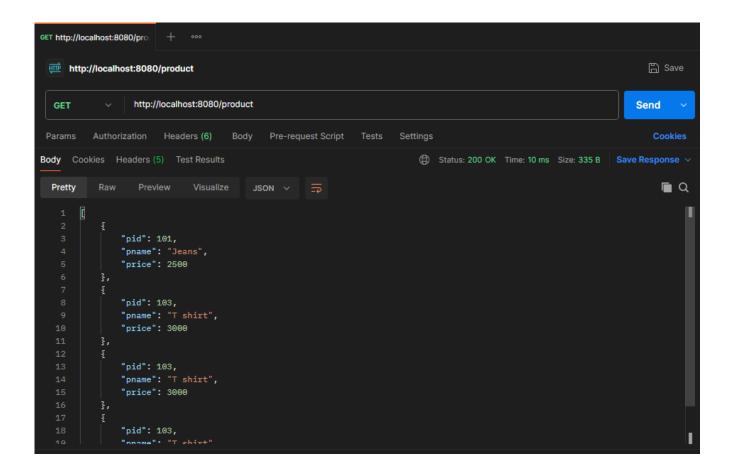


```
public int delById(String id)
{
          String sql="delete from products where pid="+Integer.parseInt(id);
          return jdbcT.update(sql);
}
```





OUTPUT:





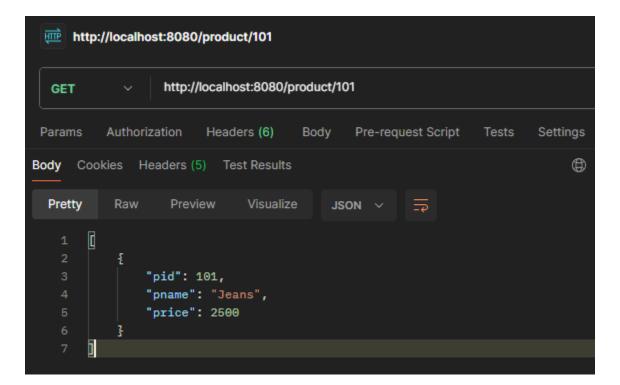


```
( ) localhost:8080/product
        G
Pretty-print 🗹
    "pid": 101,
    "pname": "Jeans",
    "price": 2500
  },
{
    "pid": 103,
    "pname": "T shirt",
    "price": 3000
  },
{
    "pid": 103,
    "pname": "T shirt",
    "price": 3000
  },
    "pid": 103,
    "pname": "T shirt",
    "price": 3000
```





GET BY ID







DELETE BY ID

