

Program no 5:

Create a Spring Boot Application using Maven Plugin

- Write a REST Controller API using Spring Annotations to validate the user input for
- Product details using POST, PUT methods.
- Using Postman invoke the REST Controller to demonstrate end to end working

Product.java

```
package com.example.RestExample_validate;
```

```
import jakarta.validation.constraints.Max;
import jakarta.validation.constraints.Min;
import jakarta.validation.constraints.NotBlank;
import jakarta.validation.constraints.NotNull;
```

```
public class Product {
    @NotNull(message="id is required")
    @Min(1)
    @Max(100)
    private Long id;

    @NotBlank(message = "Name is required")
    private String name;

    @Min(1)
    @NotNull(message = "Price is required")
    private Double price;

    public Long getId() {
        return id;
    }
    public void setId(Long id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public Double getPrice() {
        return price;
    }
    public void setPrice(Double price) {
        this.price = price;
    }
}
```

**ProductController.java:**

```

package com.example.RestExample_validate;

@RestController
@RequestMapping("/api/products")
public class ProductController {
    private final List<Product> products = new ArrayList<>();
    @PostMapping
    public ResponseEntity<?> addProduct(@Valid @RequestBody Product product,
BindingResult result) {
        List<String> displayErrors = new ArrayList<String>();
        if (result.hasErrors()) {
            List<FieldError> errors = result.getFieldErrors();
            for(FieldError err:errors) {
                displayErrors.add(err.getField() + ": " + err.getDefaultMessage());
                System.out.println(displayErrors);
            }
            return ResponseEntity.badRequest().body(displayErrors);
        }
        products.add(product);
        return ResponseEntity.status(HttpStatus.CREATED).body(product);
    }

    @GetMapping
    public List<Product> getProduct(){
        return products;
    }
}

```

main class:

```

package com.example.RestExample_validate;

```

```

//imports

```

```

@SpringBootApplication
public class RestExampleValidateApplication {

    public static void main(String[] args) {
        SpringApplication.run(RestExampleValidateApplication.class, args);
    }

}

```

-----end of the program-----