RESTAPI-1

1.personcontroller:

```
package com.example;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping(path = "/webapione")
public class PersonController {
  @Autowired
  PersonService personService;
  @RequestMapping("/person/{personId}")
  public PersonResonse getPerson(@PathVariable int personId){
    return personService.getPerson(personId);
 }
  @RequestMapping(method=RequestMethod.POST, value="/person")
  public void addPerson(@RequestBody PersonEntity pe ) {
    personService.addPerson(pe);
 }
```

```
2.personentity:
package com.example;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.ld;
@Entity
public class PersonEntity {
  @ld
  @GeneratedValue(strategy = GenerationType.AUTO)
  @Column(name = "id", updatable = false, nullable = false)
  private Integer personId;
  @Column
  private String name;
  @Column
  private Integer age;
  public PersonEntity() {
    super();
  }
  public PersonEntity(Integer personId, String name, Integer age) {
```

}

```
super();
  this.personId = personId;
  this.name = name;
  this.age = age;
}
public Integer getPersonId() {
  return personId;
}
public void setPersonId(Integer personId) {
  this.personId = personId;
}
public String getName() {
  return name;
}
public void setName(String name) {
  this.name = name;
}
public Integer getAge() {
  return age;
}
public void setAge(Integer age) {
  this.age = age;
}
```

```
package com.example;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
@Repository
public interface PersonRepository extends JpaRepository<PersonEntity,
Integer> {
}
4.personresonse:
package com.example;
public class PersonResonse {
   private Integer personId;
    private String name;
    private Integer age;
    private String hobby;
    public Integer getPersonId() {
        return personId;
    public void setPersonId(Integer personId) {
        this.personId = personId;
    public String getName() {
       return name;
    public void setName(String name) {
       this.name = name;
    public Integer getAge() {
        return age;
    public void setAge(Integer age) {
        this.age = age;
    public String getHobby() {
       return hobby;
    public void setHobby(String result) {
       this.hobby = result;
```

3. Personrepository

}

```
5.personservice:
package com.example;
import java.util.HashMap;
import java.util.Map;
import org.springframework.stereotype.Service;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.client.RestTemplate;
@Service
public class PersonService {
  @Autowired
  PersonRepository personRepository;
  RestTemplate restTemplate = new RestTemplate();
  public PersonResonse getPerson(int personId){
    final String uri = "http://localhost:8082/webapitwo/hobby/{personId}";
    Map<String, Integer> params = new HashMap<String, Integer>();
    params.put("personId", personId);
    String result = restTemplate.getForObject(uri, String.class, params);
    PersonEntity pe=personRepository.findById(personId).get();
    PersonResonse pr=new PersonResonse();
    pr.setPersonId(pe.getPersonId());
```

```
pr.setName(pe.getName());
     pr.setAge(pe.getAge());
     pr.setHobby(result);
    return pr;
  }
  public void addPerson(PersonEntity pe){
    personRepository.save(pe);
  }
}
5.
package com.example;
import org.springframework.boot.SpringApplication;
import\ org. spring framework. boot. autoconfigure. Spring Boot Application;
@SpringBootApplication
public class Restapi1Application {
public static void main(String[] args) {
            SpringApplication.run(Restapi1Application.class, args);
      }}
6.application.properties
server.port=8081
spring.application.name=RestApiOne
```

RESTAPI-2

```
    hobbycontroller;
    package com.example;
```

import org.springframework.beans.factory.annotation.Autowired; import org.springframework.web.bind.annotation.PathVariable; import org.springframework.web.bind.annotation.RequestBody; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RequestMethod; import org.springframework.web.bind.annotation.RestController;

```
@RestController
@RequestMapping(path = "/webapitwo")

public class HobbyController {

    @Autowired
    HobbyService hobbyService;

    @RequestMapping("/hobby/{personid}")
    public String findByPersonId(@PathVariable int personid){
        return hobbyService.findByPersonId(personid);
    }

    @RequestMapping(method=RequestMethod.POST, value="/hobby")
    public void addHobby(@RequestBody HobbyEntity he ) {
```

```
hobbyService.addHobby(he);
  }
}
2.hobbyentity:
package com.example;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.ld;
@Entity
public class HobbyEntity {
  @ld
  @GeneratedValue(strategy = GenerationType.AUTO)
  @Column(name = "id", updatable = false, nullable = false)
  private Integer id;
  @Column
  private Integer personId;
  @Column
```

```
private String name;
  public HobbyEntity() {
    super();
  }
  public HobbyEntity(Integer personId, String name) {
    super();
    this.personId = personId;
    this.name = name;
  }
  public Integer getPersonId() {
    return personId;
  public void setPersonId(Integer personId) {
    this.personId = personId;
  }
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
3.hobbyrepository:
package com.example;
```

}

```
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;
@Repository
public interface HobbyRepository extends JpaRepository<HobbyEntity, Integer>
{
  @Query("SELECT h.name FROM HobbyEntity h WHERE
h.personId=:personId")
  public String findByPersonId(Integer personId);
}
4.hobbyservice:
package com.example;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class HobbyService {
  @Autowired
  HobbyRepository hobbyRepository;
  public String findByPersonId(int personid){
```

```
return hobbyRepository.findByPersonId(personid);
  }
  public void addHobby(HobbyEntity he){
    hobbyRepository.save(he);
  }
}
5. package com.example;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class Restapi2Application {
      public static void main(String[] args) {
            SpringApplication.run(Restapi2Application.class, args);
      }}
6.application.properties:
server.port=8082
spring.application.name=RestApiTwo
```

OUTPUT:

