Aim: Program for Creating and using APIs

public IActionResult GetProduct(int id)

if (product == null)

return Ok(product);

return NotFound();

var product = repository.GetById(id);

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Experiment 11

Code :
ProductsController.cs
using Microsoft.AspNetCore.Mvc;
using AspNetCoreWebAPI.Data;
using AspNetCoreWebAPI.Models;
namespace AspNetCoreWebAPI.Controllers
{
 public class ProductsController : ControllerBase
 {
 private readonly ProductRepository _repository = new ProductRepository();
 public lActionResult GetProducts()
 {
 return Ok(_repository.GetAll());
 }
}

public IActionResult AddProduct([FromBody] Product product)

}

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```
{
  _repository.Add(product);
  return CreatedAtAction(nameof(GetProduct), new { id = product.Id }, product);
}
public IActionResult UpdateProduct(int id, [FromBody] Product product)
{
  if (id != product.Id)
    return BadRequest();
  var existingProduct = _repository.GetById(id);
  if (existingProduct == null)
    return NotFound();
  repository.Update(product);
  return NoContent();
}
public IActionResult DeleteProduct(int id)
{
  var product = repository.GetById(id);
  if (product == null)
    return NotFound();
  _repository.Delete(id);
  return NoContent();
}
```

}

}

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Product.cs

```
namespace AspNetCoreWebAPI.Models
{
    public class Product
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public decimal Price { get; set; }
    }
}
```



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Output:



```
http://localhost:5226/api/Products

Server response

Code Details

200

Response body

[ {
    "id": 1,
    "name": "Laptop",
    "price": 1888
    }
    ;
    {
        id": 2,
        "name": "Smartphone",
        "price": 888
    }
    ]

Response headers

content-type: application/json; charset=utf-8 date: Sat, 16 Nov 2024 10:31:58 GMT server: Kestrel transfer-encoding: chunked
```