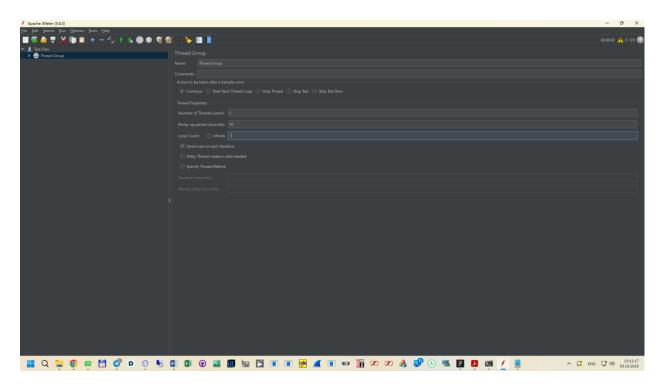
## Лабораторная работа №5 Работа с Apache Jmeter

```
from fastapi import FastAPI, HTTPException
from pydantic import BaseModel
from typing import List
import sqlite3
app = FastAPI()
# Database setup
db path = r'C:\NO\auction.db'
def init db():
   conn = sqlite3.connect(db path)
   cursor = conn.cursor()
   cursor.execute('''
CREATE TABLE IF NOT EXISTS items (
id INTEGER PRIMARY KEY AUTOINCREMENT,
name TEXT NOT NULL,
description TEXT,
price REAL NOT NULL
)
' ' ' )
   conn.commit()
   conn.close()
init db()
class Item(BaseModel):
   id: int # Добавляем поле id для модели
   name: str
   description: str = None
   price: float
@app.post("/items/", response model=Item)
def create_item(item: Item):
   conn = sqlite3.connect(db path)
   cursor = conn.cursor()
   cursor.execute('''
INSERT INTO items (name, description, price)
VALUES (?, ?, ?)
(item.name, item.description, item.price))
   conn.commit()
   item id = cursor.lastrowid # Получаем ID последней вставленной строки
   conn.close()
   return {**item.dict(), "id": item id} # Возвращаем объект с ID
@app.get("/items/", response model=List[Item])
def get items():
   conn = sqlite3.connect(db path)
   cursor = conn.cursor()
   cursor.execute('SELECT * FROM items')
   rows = cursor.fetchall()
   conn.close()
   return [Item(id=row[0], name=row[1], description=row[2], price=row[3])
for row in rows]
@app.get("/items/{item id}", response model=Item)
def get item(item id: int):
```

```
conn = sqlite3.connect(db_path)
cursor = conn.cursor()
cursor.execute('SELECT * FROM items WHERE id = ?', (item_id,))
row = cursor.fetchone()
conn.close()
if row is None:
    raise HTTPException(status_code=404, detail="Item not found")
return Item(id=row[0], name=row[1], description=row[2], price=row[3])
```

Создание ThreadGroup ("Number of Threads (users)" на 5, "Ramp-Up Period (seconds)" на 10 и "Loop Count" на 1. )

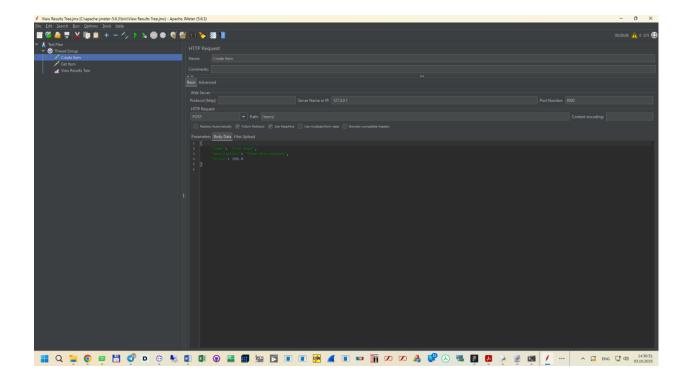


Добавление HTTP Request Sampler для POST запроса

Name: Create Item

**Server Name or IP**: 127.0.0.1

Method: POST
Path: /items/
Body Data: Вставьте пример данных:
{
"name": "Item 1",
"description": "A description of Item 1",
"price": 100.0

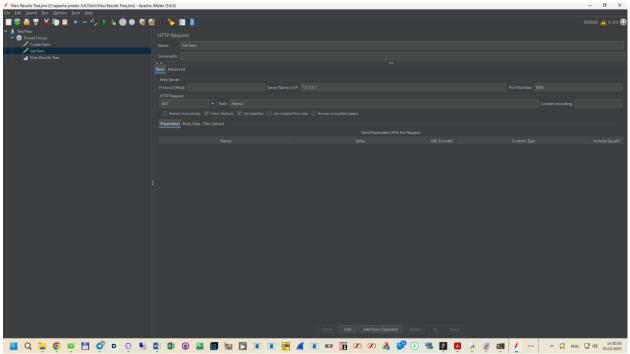


Добавление HTTP Request Sampler для GET запроса

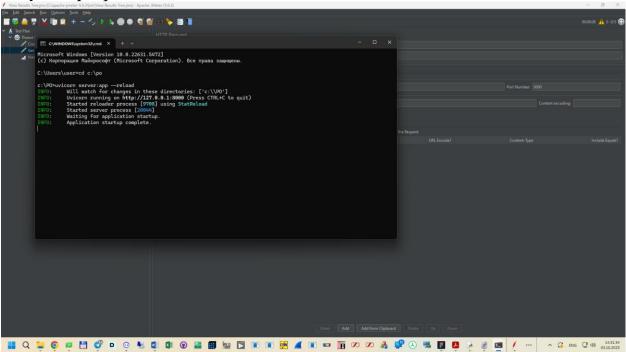
Name: Get Items

**Server Name or IP**: 127.0.0.1

Method: GET



Запуск сервера



Проведение тестов по отправке и получению запросов

