

## Лабораторная работа №5

Терминал:

```
git clone https://github.com/emscripten-core/emsdk.gitcd emsdk
```

```
./emsdk install latest
```

```
./emsdk activate latestsource ./emsdk_env.sh
```

```
cd C:\Users\User\budget_planner\emsdk
```

```
.\emsdk_env.bat
```

```
cd ..
```

```
C:\Users\Matin\budget_planner\emsdk\upstream\emscripten\emcc.bat main.c -o index.js
-s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s EXPORT_NAME="BudgetPlanner" `
-s
EXPORTED_FUNCTIONS=['"_main","_showHelloMessage","_jsAddExpense","_jsDeleteExpense",
"_jsClearAllExpenses","_jsGetTotalExpenses","_jsGetExpenseCount","_jsGetCategoryCou
nt","_getExpenseJSON","_getCategoryTotalJSON","_freeMemory","_malloc","_free"] `
-s EXPORTED_RUNTIME_METHODS=['ccall', "cwrap", "stringToUTF8", "UTF8ToString"] `
-s ALLOW_MEMORY_GROWTH=1
```

```
python -m http.server 8000
```

```

PROBLEMS OUTPUT TERMINAL PORTS

● PS C:\Users\User\budget_planner> cd C:\Users\User\budget_planner
PS C:\Users\User\budget_planner> emcc main.c -o index.js -s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s EXPORT_NAME="BudgetPlanner"
>> -s EXPORTED_FUNCTIONS=["_main","showHelloMessage","jsAddExpense","jsDeleteExpense","jsClearAllExpenses","jsGetTotalExpenses","jsGetExpenseCount","jsGetCategoryCount","getExpenseJSON","getCategoryTotalJSON",
>> -s EXPORTED_RUNTIME_METHODS=["ccall","cwrap","stringToUTF8","UTF8ToString"]
>> -s ALLOW_MEMORY_GROWTH=1
emcc : The term 'emcc' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ emcc main.c -o index.js -s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s ...
+ ~~~~~
    + CategoryInfo          : ObjectNotFound: (emcc:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundError

● PS C:\Users\User\budget_planner> cd C:\Users\User\budget_planner\emsdk
● PS C:\Users\User\budget_planner\emsdk> .\emsdk_env.bat
Setting up EMSDK environment (suppress these messages with EMSDK_QUIET=1)
Adding directories to PATH:
PATH += C:\Users\User\budget_planner\emsdk
PATH += C:\Users\User\budget_planner\emsdk\upstream\emscripthen

Setting environment variables:
PATH = C:\Users\User\budget_planner\emsdk;C:\Users\User\budget_planner\emsdk\upstream\emscripthen;C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\Sys
tem32\cmd.exe;C:\Program Files\Python39\Scripts\python.exe;C:\Program Files\Python39\Local Programs\Python\Python39\python.exe;C:\Program Files\Git\bin;c:\Program Files\OpenSSH-Win64;c:\Program Files\node
.js\bin;C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe;C:\Users\User\AppData\Local\Programs\Python\Python39\python.exe;C:\Users\User\AppData\Local\Microsoft\WindowsApps\C:\Users\User\AppData\Local\G
oogle\FilesViaBrainsPyCharm Community Edition 2024.2.3\bin;;C:\Users\User\AppData\Local\Microsoft\WindowsApps\C:\Users\User\AppData\Local\Google\FilesViaBrainsPyCharm Community Edition 2024.2.3\bin;
EMSDK = C:\Users\User\budget_planner\emsdk
EMSDK_NODE = C:\Users\User\budget_planner\emsdk\node\20.18.0_64bit\bin\node.exe
EMSDK_PYTHON = C:\Users\User\budget_planner\emsdk\python\3.9.2-nuget_64bit\python.exe
Clearing existing environment variable: EMSDK_PY
● PS C:\Users\User\budget_planner\emsdk> cd ..
● PS C:\Users\User\budget_planner> emcc main.c -o index.js -s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s EXPORT_NAME="BudgetPlanner"
>> -s EXPORTED_FUNCTIONS=["_main","showHelloMessage","jsAddExpense","jsDeleteExpense","jsClearAllExpenses","jsGetTotalExpenses","jsGetExpenseCount","jsGetCategoryCount","getExpenseJSON","getCategoryTotalJSON",
>> -s EXPORTED_RUNTIME_METHODS=["ccall","cwrap","stringToUTF8","UTF8ToString"]
>> -s ALLOW_MEMORY_GROWTH=1
emcc : The term 'emcc' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ emcc main.c -o index.js -s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s ...
+ ~~~~~
    + CategoryInfo          : ObjectNotFound: (emcc:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundError

PS C:\Users\User\budget_planner> C:\Users\User\budget_planner\emsdk\upstream\emscripthen\emcc.bat main.c -o index.js -s WASM=1 -s ASSERTIONS=1 -s MODULARIZE=1 -s EXPORT_NAME="BudgetPlanner"
>> -s EXPORTED_FUNCTIONS=["_main","showHelloMessage","jsAddExpense","jsDeleteExpense","jsClearAllExpenses","jsGetTotalExpenses","jsGetExpenseCount","jsGetCategoryCount","getExpenseJSON","getCategoryTotalJSON",
>> -s EXPORTED_RUNTIME_METHODS=["ccall","cwrap","stringToUTF8","UTF8ToString"]
>> -s ALLOW_MEMORY_GROWTH=1
● PS C:\Users\User\budget_planner> python http_server.py
Server running on port 8080 (http://localhost:8080)
```

## Budget Planner / Expense Tracker

Track your expenses and manage your budget with WebAssembly

### Add New Expense

Date:	Category:	Amount:
<input type="text" value="26 . 04 . 2025"/>	<input type="text" value="-- Select Category --"/>	<input type="text"/>

Description:

Add Expense

Clear All Expenses

### Expense List

Date	Category	Amount	Description	Action
2025-04-26	Transport	\$56877.77	hfhhdtd	Delete

### Expense Summary

Total Expenses: \$56877.77

Category Breakdown:

Transport: \$56877.77

```
>> -s ALLOW_MEMORY_GROWTH=1
PS C:\Users\User\budget_planner> python -m http.server 8000
Serving HTTP on :: port 8000 (http://[::]:8000/) ...
::1 - - [26/Apr/2025 15:11:00] "GET / HTTP/1.1" 200 -
::1 - - [26/Apr/2025 15:11:00] "GET /app.js HTTP/1.1" 304 -
::1 - - [26/Apr/2025 15:11:00] "GET /index.js HTTP/1.1" 200 -
::1 - - [26/Apr/2025 15:11:00] "GET /index.wasm HTTP/1.1" 200 -
```