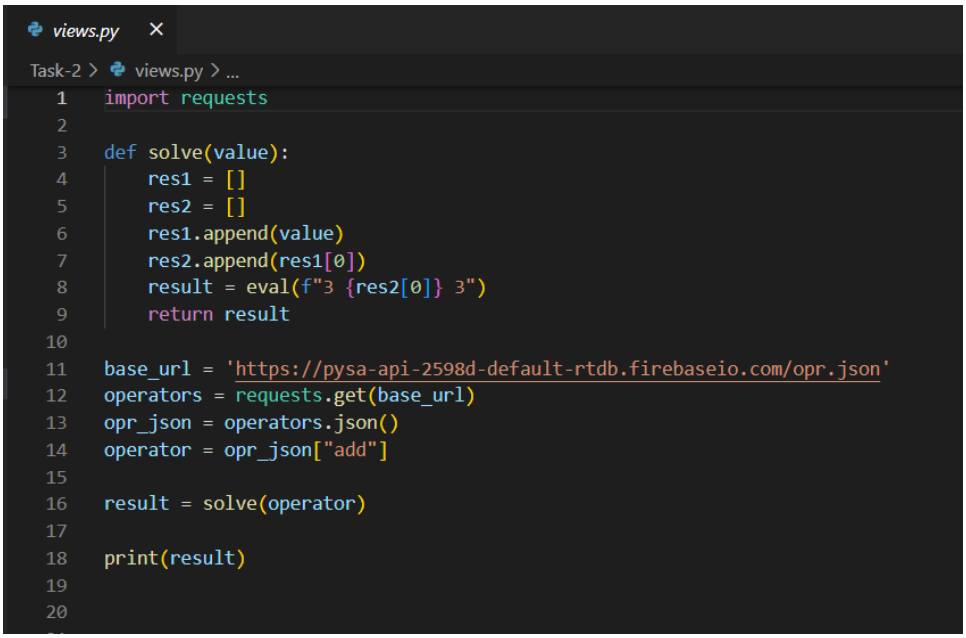
Pysa Experiment (Task – 2)

Refer to the below step-by-step guide if you are not able to run Pysa or Dynamic debugger.

Sub Task – 1

For the Sub Task-1, you must go through all the files in the task-2 directory and answer the questions. Below are all the files.

Views.py



Taint.config

taint.config

Task-2 > taint.config

```
{
  "sources": [
    {
      "name": "CustomUserControlled",
      "comment": "use to annotate user input"
    },
    {
      "name": "WebUserConrtrolled",
      "comment": "use to annotate user input"
    }
  ],

  "sinks": [
    {
      "name": "CodeExecution",
      "comment": "use to annotate execution of python code"
    }
  ],

  "features": [],

  "rules": [
    {
      "name": "Possible RCE:",
      "code": 5001,
      "sources": [ "CustomUserControlled" ],
      "sinks": [ "CodeExecution" ],
      "message_format": "User specified data may reach a code execution sink"
    },
    {
      "name": "Possible RCE2:",
      "code": 5002,
      "sources": [ "WebUserConrtrolled" ],
      "sinks": [ "CodeExecution" ],
      "message_format": "User specified data from web may reach a code execution sink"
    }
  ]
}

```

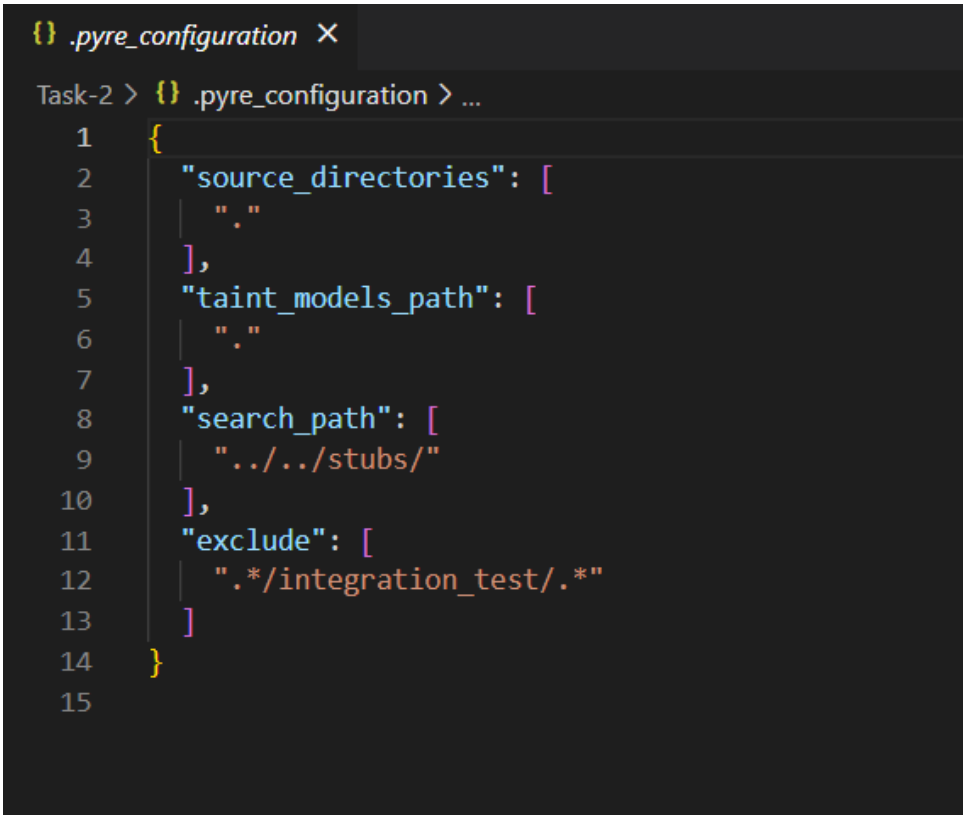
sources_sinks.pysa

sources_sinks.pysa

Task-2 > sources_sinks.pysa

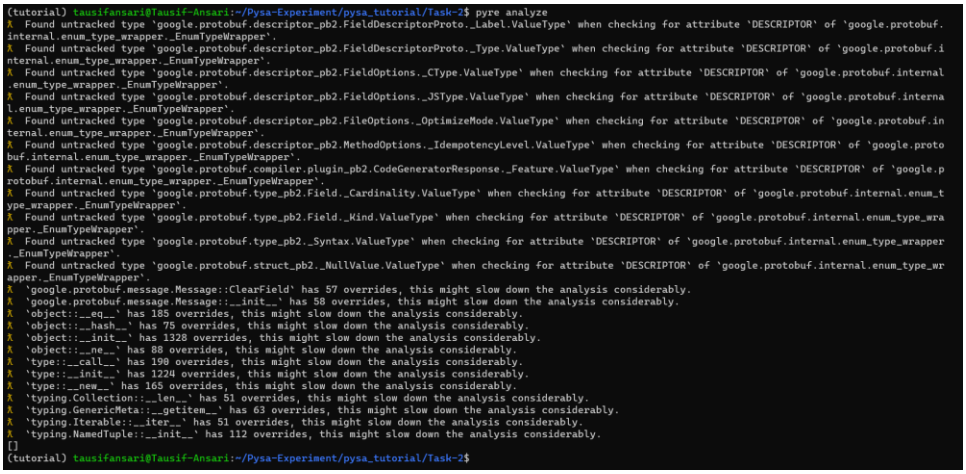
```
def requests.api.get() -> TaintSource[WebUserConrtrolled]: ...

def eval(__source: TaintSink[CodeExecution], __globals, __locals): ...

def exec(__source: TaintSink[CodeExecution], __globals, __locals): ...

```

.pyre_configuration



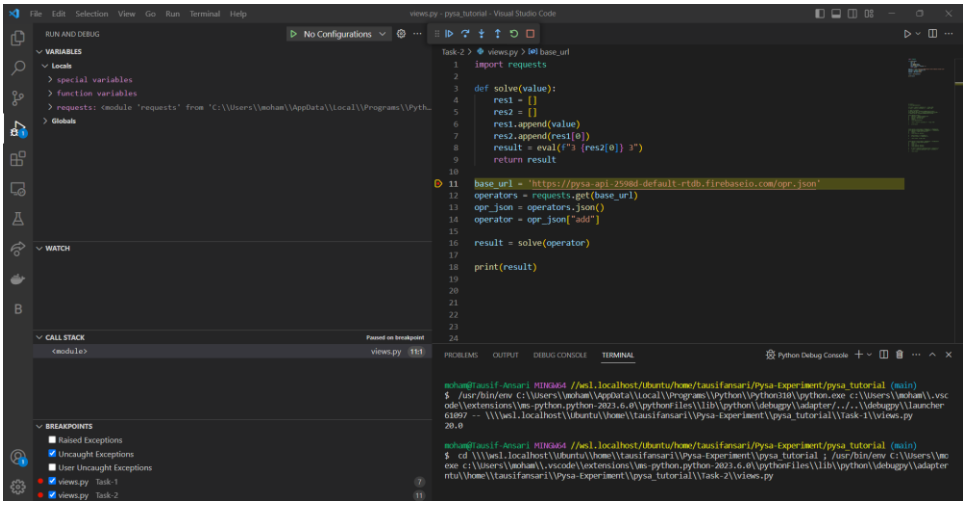
Sub Task – 2

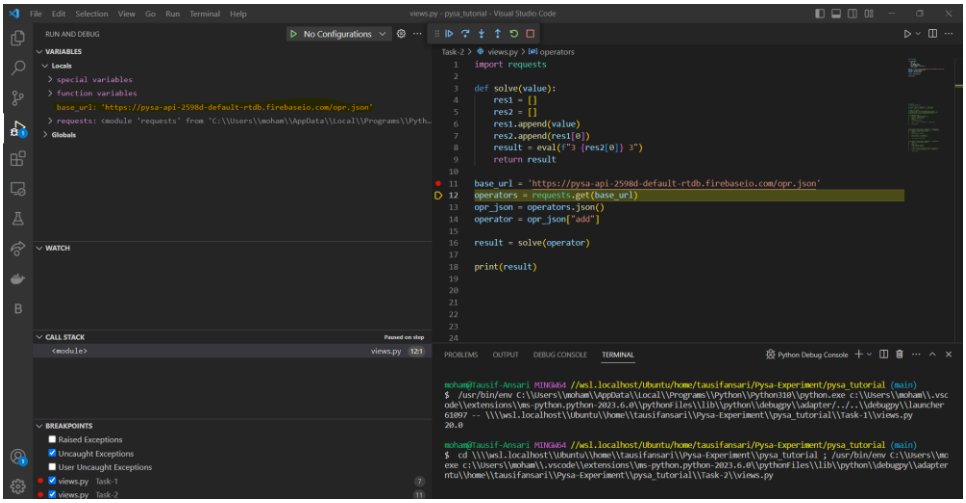
For the Sub Task-2, you will run Pysa (Static Analyzer) and by going through its output you will answer the questions. Below is the Pysa Output for Task-2

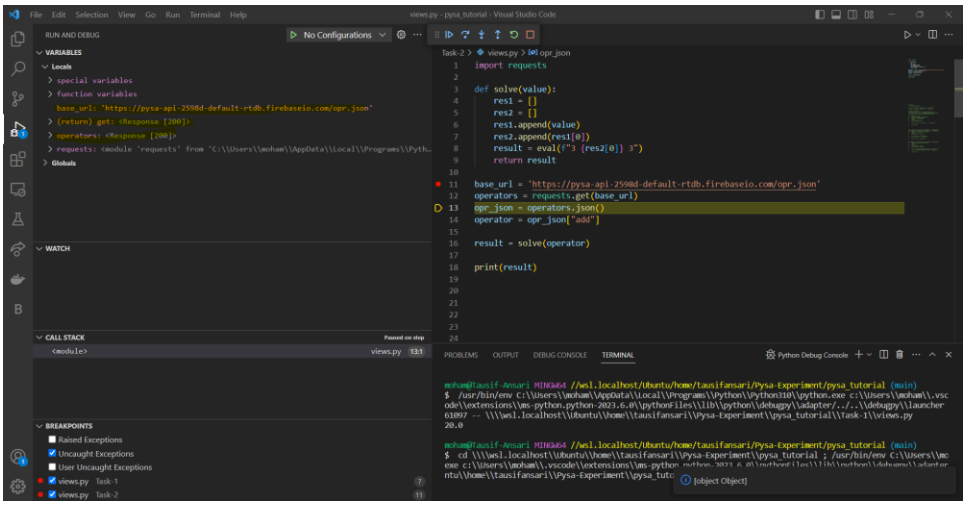


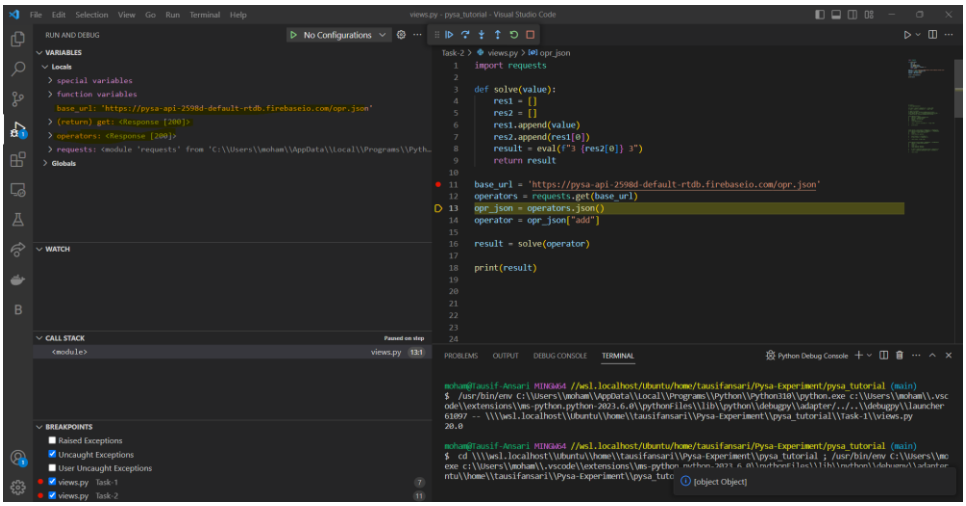
Sub Task – 3

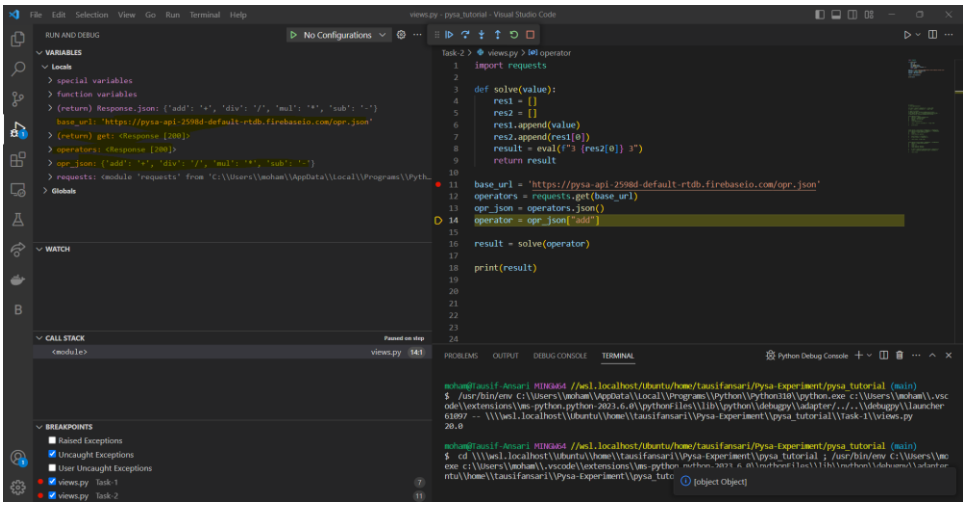
For the Sub Task-3, you will run the dynamic debugger and try to track the flow of data. In this Sub Task you will use the Output of Pysa along with the Output of the dynamic debugger and then try to answer the questions. Below is the Output of the debugger.

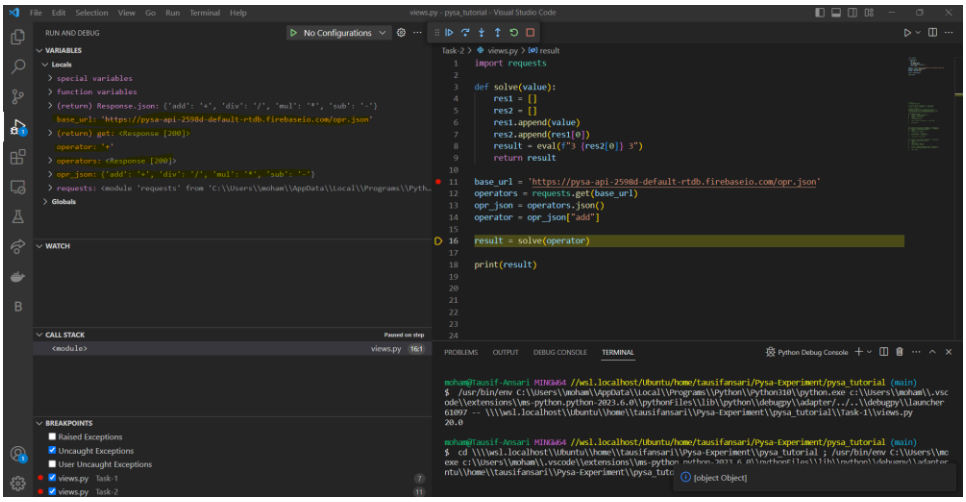


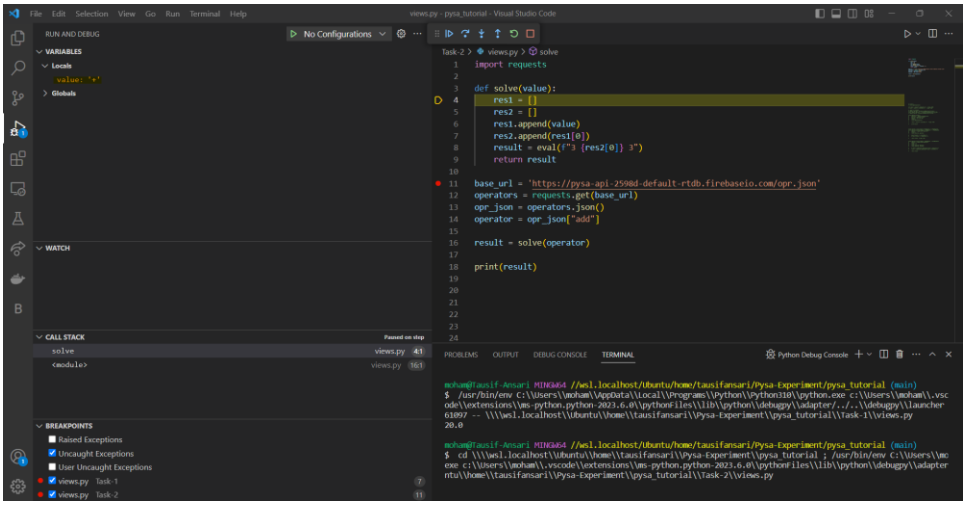


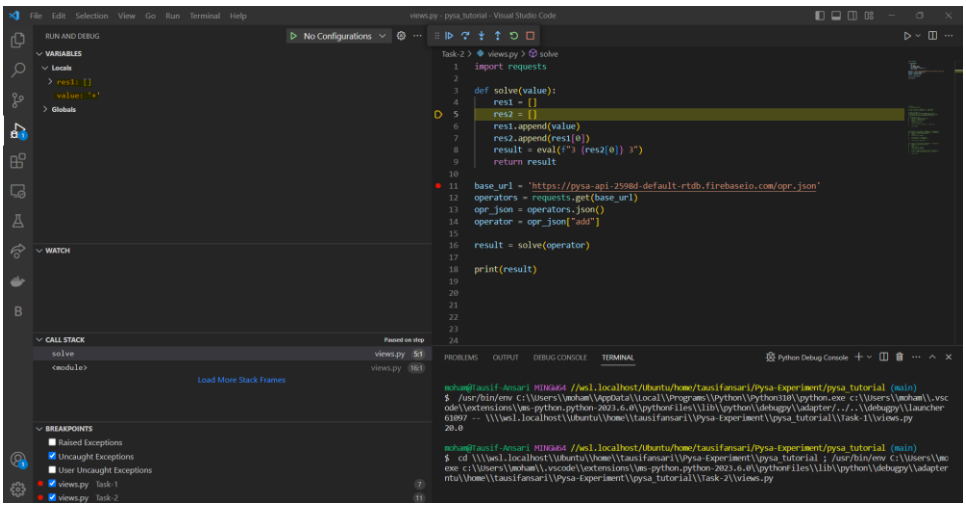

views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
special variables
function variables
base_url: 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
(return) get: <Response [200]>
operators: <Response [200]>
requests: <module 'requests' from 'C:\\Users\\moham\\AppData\\Local\\Programs\\Pyth...
Globals
WATCH
CALL STACK
Paused on step
<module> views.py 13:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > opr_json
1 import requests
2
3 def solve(value):
4 res1 = []
5 res2 = []
6 res1.append(value)
7 res2.append(res1[0])
8 result = eval(f"3 {res2[0]} 3")
9 return result
10
11 base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
12 operators = requests.get(base_url)
13 opr_json = operators.json()
14 operator = opr_json["add"]
15
16 result = solve(operator)
17
18 print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\moham\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- /home/tausifansari/Pysa-Experiment/pysa_tutorial/Task-1/views.py
[object Object]

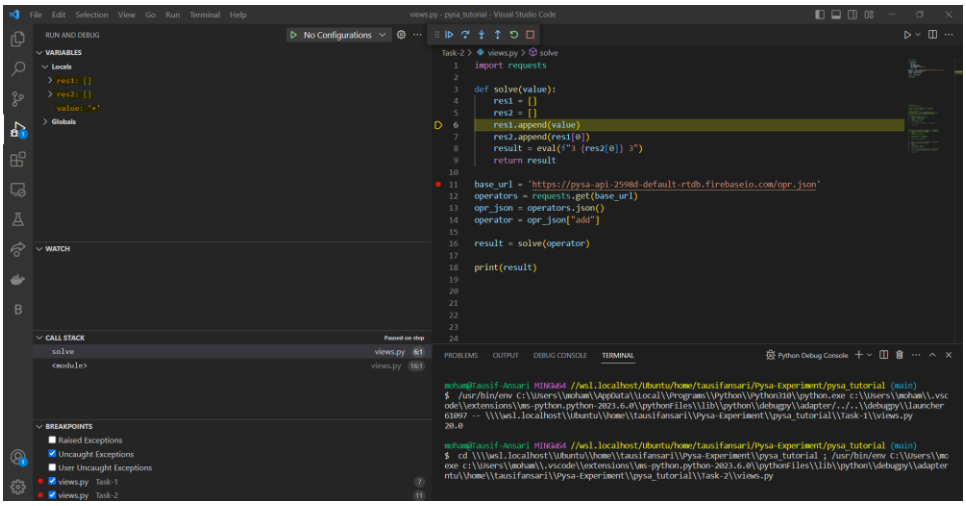

views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
special variables
function variables
base_url: 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
(return) get: <Response [200]>
operators: <Response [200]>
requests: <module 'requests' from 'C:\\Users\\moham\\AppData\\Local\\Programs\\Pyth...
Globals
WATCH
CALL STACK
Paused on step
<module> views.py 13:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > opr_json
1 import requests
2
3 def solve(value):
4 res1 = []
5 res2 = []
6 res1.append(value)
7 res2.append(res1[0])
8 result = eval(f"3 {res2[0]} 3")
9 return result
10
11 base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
12 operators = requests.get(base_url)
13 opr_json = operators.json()
14 operator = opr_json["add"]
15
16 result = solve(operator)
17
18 print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\moham\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- /home/tausifansari/Pysa-Experiment/pysa_tutorial/Task-1/views.py
[object Object]

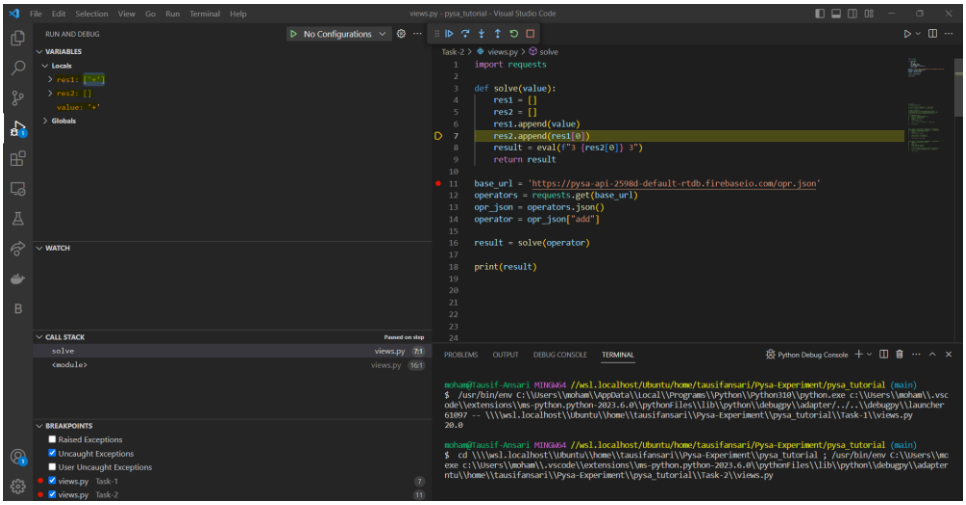

views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
special variables
function variables
(return) Response.json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
base_url: 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
(return) get: <Response [200]>
operators: <Response [200]>
opr_json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
requests: <module 'requests' from 'C:\\Users\\moham\\AppData\\Local\\Programs\\Pyth...
Globals
WATCH
CALL STACK
Paused on step
<module> views.py 14:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > operator
1 import requests
2
3 def solve(value):
4 res1 = []
5 res2 = []
6 res1.append(value)
7 res2.append(res1[0])
8 result = eval(f"3 {res2[0]} 3")
9 return result
10
11 base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
12 operators = requests.get(base_url)
13 opr_json = operators.json()
14 operator = opr_json["add"]
15
16 result = solve(operator)
17
18 print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\moham\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
moham@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher c:\\Users\\moham\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- /home/tausifansari/Pysa-Experiment/pysa_tutorial/Task-1/views.py
[object Object]

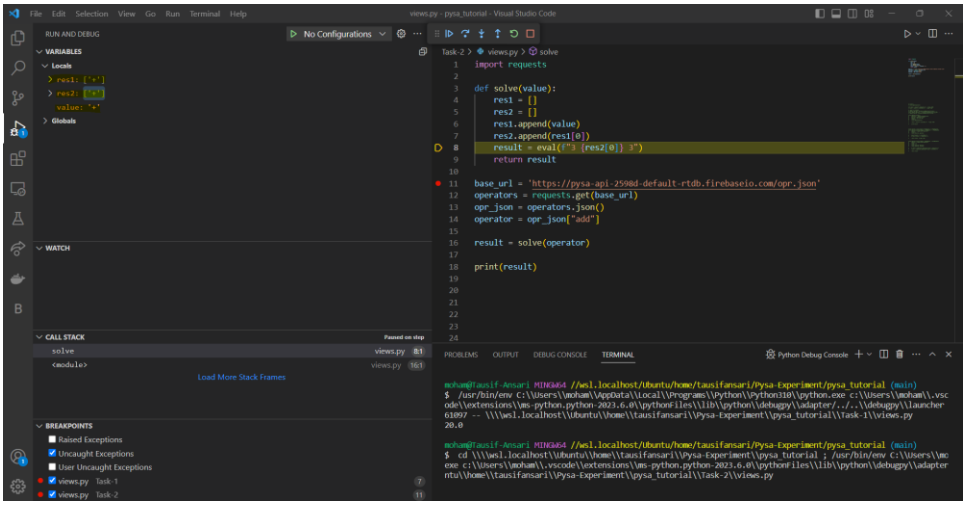

views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
Globals
WATCH
CALL STACK
<module>
views.py 16:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > result
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"3 {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\mohan\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter
[object Object]


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
value: '+'
Globals
WATCH
CALL STACK
solve
views.py 4:1
<module>
views.py 16:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"3 {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\mohan\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter
ntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-2\\views.py


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
res1: []
value: '+'
Globals
WATCH
CALL STACK
solve
views.py 5:1
<module>
views.py 16:1
Load More Stack Frames
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"3 {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\mohan\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter
ntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-2\\views.py


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
res1: []
res2: []
value: '+'
Globals
WATCH
CALL STACK
Paused on step
solve views.py 6:1
<module> views.py 16:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"3 {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
mohan@Tausif-Ansari MINGW64 /wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\mohan\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
mohan@Tausif-Ansari MINGW64 /wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter ntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-2\\views.py


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
res1: ['+']
res2: []
value: '+'
Globals
WATCH
CALL STACK
Paused on step
solve views.py 7:1
<module> views.py 16:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"3 {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
mohan@Tausif-Ansari MINGW64 /wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ /usr/bin/env C:\\Users\\mohan\\AppData\\Local\\Programs\\Python\\Python310\\python.exe c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter/../..\\debugpy\\launcher 61097 -- \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-1\\views.py
20.0
mohan@Tausif-Ansari MINGW64 /wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter c:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter ntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-2\\views.py


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
res1: ['+']
res2: ['+']
value: '+'
Globals
WATCH
CALL STACK
Paused on step
solve views.py 8:1
<module> views.py 16:1
Load More Stack Frames
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"") {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
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20.0
mohan@Tausif-Ansari MINGW64 /wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
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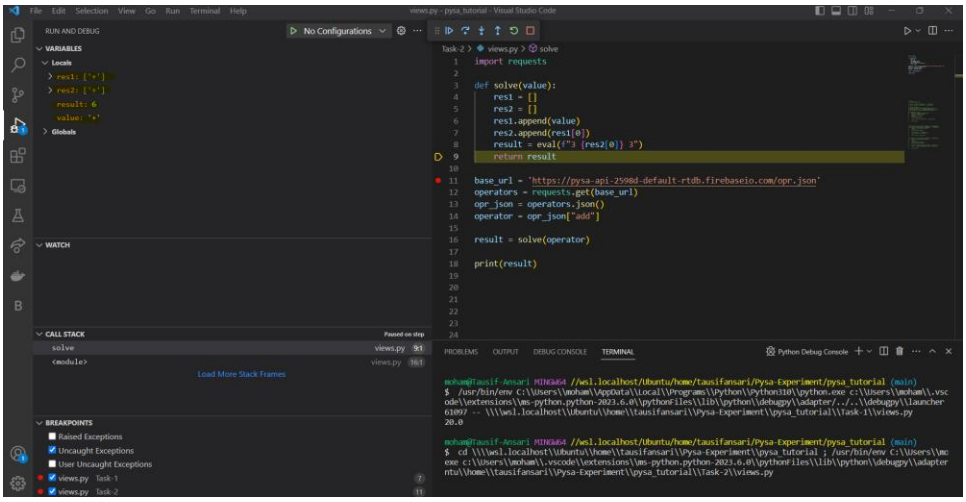
views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
res1: ['+']
res2: ['+']
result: 6
value: '+'
Globals
WATCH
CALL STACK
Paused on step
solve views.py 9:1
<module> views.py 16:1
Load More Stack Frames
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > solve
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"} {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
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mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
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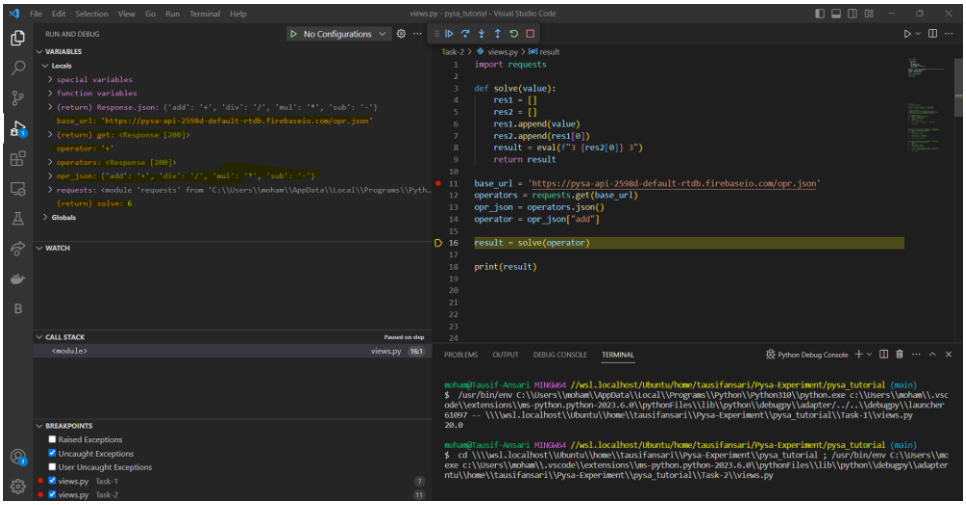
views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
special variables
function variables
(return) Response.json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
base_url: 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
(return) get: <Response [200]>
operator: '+'
operators: <Response [200]>
opr_json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
requests: <module 'requests' from 'C:\\Users\\mohan\\AppData\\Local\\Programs\\Pyth...
(return) solve: 6
Globals
WATCH
CALL STACK
Paused on step
<module> views.py 16:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > result
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"} {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
operators = requests.get(base_url)
opr_json = operators.json()
operator = opr_json["add"]
result = solve(operator)
print(result)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python Debug Console
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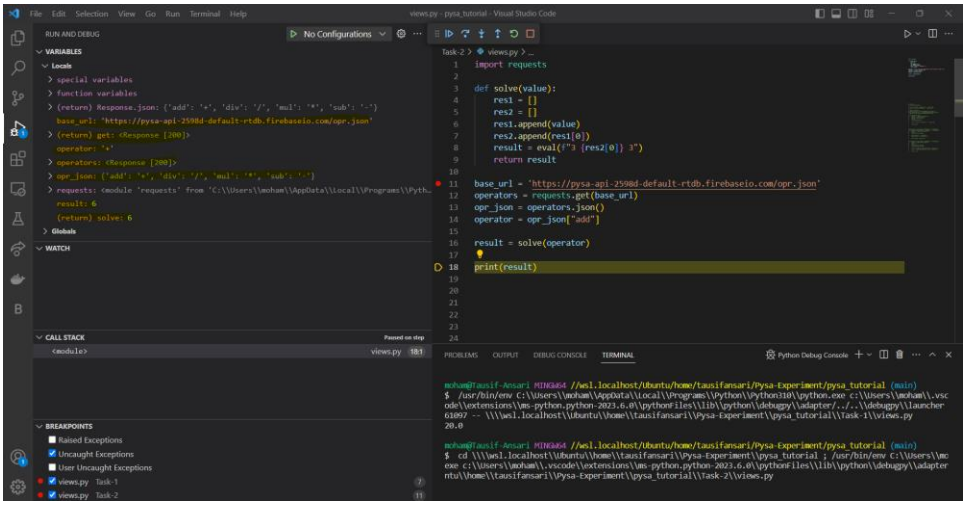
20.0
mohan@Tausif-Ansari MINGW64 //wsl.localhost/Ubuntu/home/tausifansari/Pysa-Experiment/pysa_tutorial (main)
$ cd \\\\wsl.localhost\\Ubuntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial ; /usr/bin/env C:\\Users\\mohan\\.vscode\\extensions\\ms-python.python-2023.6.0\\pythonFiles\\lib\\python\\debugpy\\adapter ntu\\home\\tausifansari\\Pysa-Experiment\\pysa_tutorial\\Task-2\\views.py


views.py - pysa_tutorial - Visual Studio Code
RUN AND DEBUG
No Configurations
VARIABLES
Locals
special variables
function variables
(return) Response.json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
base_url: 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
(return) get: <Response [200]>
operator: '+'
operators: <Response [200]>
opr_json: {'add': '+', 'div': '/', 'mul': '*', 'sub': '-'}
requests: <module 'requests' from 'C:\\Users\\mohan\\AppData\\Local\\Programs\\Pyth...
result: 6
(return) solve: 6
Globals
WATCH
CALL STACK
Paused on step
<module> views.py 18:1
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
views.py Task-1 7
views.py Task-2 11
Task-2 > views.py > ...
import requests
def solve(value):
res1 = []
res2 = []
res1.append(value)
res2.append(res1[0])
result = eval(f"} {res2[0]} 3")
return result
base_url = 'https://pysa-api-2598d-default-rtdb.firebaseio.com/opr.json'
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