Pysa Experiment (Task – 3)

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-3 directory and answer the questions. Below are all the files.

Views.py

```
views.py X

Task-3 > views.py > ...

import requests

def solve(value):
    num1 = 100
    num2 = 11
    result = num1 * num2
    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["mul"]

result = solve(operator)

print(result)
```

Taint.config

sources_sinks.pysa

```
    sources_sinks.pysa ×

Task-3 > ≡ sources_sinks.pysa

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

def eval(_source: TaintSink[CodeExecution], _globals, _locals): ...

4

5
```

.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-3

```
(tutorial) tausifamasifilausif-Amasii-(Psys-Experiment/psys.tutorial/Issi-35 pyre analyze
A Found untracked type 'google.protoble.descriptor.pb2.FieldescriptorProto_tabel.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum.type_wrapper._EnumTypeWrapper'
A Found untracked type 'google.protoble.descriptor_pb2.FieldescriptorProto._Type.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum.type_wrapper._EnumTypeWrapper'
A Found untracked type 'google.protoble.descriptor_pb2.Fieldoptions._CType.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum.type_wrapper._EnumTypeWrapper'
A Found untracked type 'google.protoble.descriptor_pb2.Fieldoptions._OptimizeMode.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum.type_wrapper._EnumTypeWrapper'
A Found untracked type 'google.protoble.descriptor_pb2.Fieldoptions._OptimizeMode.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.finternal.enum.type_wrapper._EnumTypeWrapper'.
A Found untracked type 'google.protoble.descriptor_pb2.Fieldoptions._IdempotencyLevel.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum.type_wrapper._EnumTypeWrapper._EnumTypeWrapper'.
A Found untracked type 'google.protoble.descriptor_pb2.Field_Kind.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum_type_wrapper._EnumTypeWrapper'.
A Found untracked type 'google.protoble.fivpe_pb2.Field_Kind.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum_type_wrapper._EnumTypeWrapper'.
A Found untracked type 'google.protoble.fivpe_pb2.Syntax.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum_type_wrapper._EnumTypeWrapper'.
A Found untracked type 'google.protoble.fivpe_pb2._Syntax.ValueType' when checking for attribute 'DESCRIPTOR' of 'google.protoble.internal.enum_type_wrapper._EnumTypeWrapper'.
A Found untracked type 'google.pr
```

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.







