

## M07 Incident Tracker

### Python Code

```
class Incident:
    total_incidents = 0
    total_damage = 0.0

    def __init__(self, incident_type, organization, severity_level, estimated_damage):
        self.incident_type = incident_type
        self.organization = organization
        self.severity_level = severity_level
        self.estimated_damage = estimated_damage

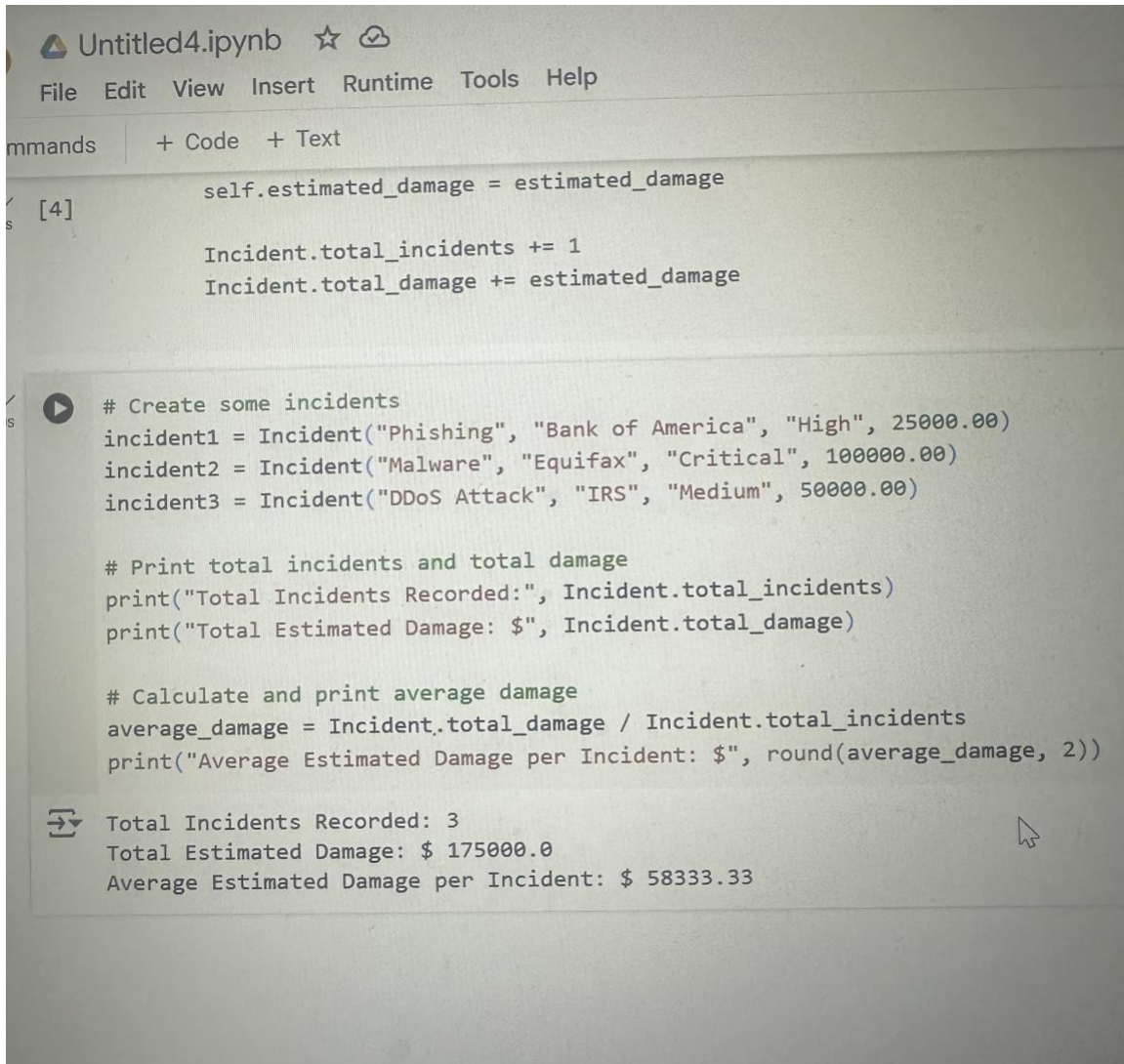
    Incident.total_incidents += 1
    Incident.total_damage += estimated_damage

# Create some incidents
incident1 = Incident("Phishing", "Bank of America", "High", 25000.00)
incident2 = Incident("Malware", "Equifax", "Critical", 100000.00)
incident3 = Incident("DDoS Attack", "IRS", "Medium", 50000.00)

# Print total incidents and total damage
print("Total Incidents Recorded:", Incident.total_incidents)
print("Total Estimated Damage: $", Incident.total_damage)

# Calculate and print average damage
average_damage = Incident.total_damage / Incident.total_incidents
print("Average Estimated Damage per Incident: $", round(average_damage, 2))
```

## Screenshot of Output



The screenshot shows a Jupyter Notebook window titled 'Untitled4.ipynb'. The interface includes a menu bar with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. Below the menu bar, there are tabs for 'Commands', '+ Code', and '+ Text'. The code cell is active, showing the following Python code:

```
[4]: self.estimated_damage = estimated_damage

    Incident.total_incidents += 1
    Incident.total_damage += estimated_damage

# Create some incidents
incident1 = Incident("Phishing", "Bank of America", "High", 25000.00)
incident2 = Incident("Malware", "Equifax", "Critical", 100000.00)
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# Print total incidents and total damage
print("Total Incidents Recorded:", Incident.total_incidents)
print("Total Estimated Damage: $", Incident.total_damage)

# Calculate and print average damage
average_damage = Incident.total_damage / Incident.total_incidents
print("Average Estimated Damage per Incident: $", round(average_damage, 2))
```

The output of the code is displayed below the code cell, showing the results of the calculations:

```
Total Incidents Recorded: 3
Total Estimated Damage: $ 175000.0
Average Estimated Damage per Incident: $ 58333.33
```