# RIPHAH INTERNATIONAL UNIVERSITY, ISLAMABAD



Lab # 12

Bachelors of Computer Science – 6<sup>th</sup> Semester

Subject: Operating System

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# Lab Tasks

**Q1:** Which command would you use to find the process ID (PID) of a process named OSLab without running it. After obtaining the PID, which command would you use to kill the process?

### **Answer:**

**Command:** pidof OSLab

This command returns the PID(s) of any process with the name OSLab

After obtaining the PID, you can terminate the process with the kill command:

**Command:** kill <PID>

**Q2:** How would you write a script that uses a signal trap to handle specific signals, and what is the purpose of a signal trap in such a script?

### Answer:

```
Code:
```

```
#!/bin/bash
# Define a function to handle signals
handle_signal() {
    echo "Signal caught, performing cleanup..."
    # Add any cleanup or exit steps here
    exit 0
}
# Set up a trap to catch SIGINT (Ctrl+C) and SIGTERM
trap handle_signal SIGINT SIGTERM
# Main script loop
while true; do
    echo "Running... Press Ctrl+C to stop."
    sleep 1
done
```

## Purpose:

A signal trap allows a script to intercept signals like SIGINT (interrupt, typically from pressing Ctrl+C), SIGTERM (terminate), and others. This lets the script perform cleanup tasks, such as saving data, closing files, or releasing resources, before exiting gracefully.