

Simple Expense Tracker

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Lab Title: **Simple Expense Tracker**

Below is the complete Python code for the Simple Expense Tracker project.

Python Code:

```
print("Welcome to the Simple Expense Tracker!\n")

categories = []
amounts = []

while True:
    cat = input("Enter category: ")
    amt_input = input("Enter amount for {}: ".format(cat))

    try:
        amt = float(amt_input)
    except:
        print("Invalid input! Enter a number.")
        continue

    categories.append(cat)
    amounts.append(amt)

    more = input("Add more? (yes/no): ").lower()
    if more != "yes":
        break

total = sum(amounts)
average = total / len(amounts) if amounts else 0

# Print report
print("\n----- Expense Report -----")
for i in range(len(categories)):
    print("{}.\t{} - Rs.{:.2f}\t".format(i+1, categories[i], amounts[i]))

print("\nTotal: Rs.{:.2f}\t".format(total))
```

```
print("Average: Rs.{:.2f}".format(average))

# Save to file safely
with open("expenses_record.txt", "w", encoding="utf-8") as f:
    f.write("Expenses Record\n")
    f.write("-----\n")
    for i in range(len(categories)):
        f.write("{}.\t{} - Rs.{:.2f}\n".format(i+1, categories[i], amounts[i]))
    f.write("\nTotal: Rs.{:.2f}\nAverage: Rs.{:.2f}\n".format(total, average))

print("\nAll expenses saved to 'expenses_record.txt' .")
print("\n===== Program Finished =====")
```