

# Using the Debugger

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Use the debugger to step through each program and correct all logical and run-time errors so that they work as intended.

```
# Convert a numeric grade to a letter grade
# F: below 50, D: 50-59, C: 60-69, B: 70-79, A: 80-100
grade = int(input("Enter a grade (0-100): "))
if grade < 50:
    print("F")
elif grade >= 50:
    print("D")
elif grade >= 60:
    print("C")
elif grade >= 70:
    print("B")
elif grade >= 80:
    print("A")
else:
    print("Invalid value.")
```

```
# Display the day of the week (e.g. Day 1 = Sunday)
day = int(input("Enter an integer (1-7): "))
while day < 1 and day > 7:
    day = int(input("Invalid day, try again: "))
if day == 1:
    print("Day 1 is Sunday.")
if day == 2:
    print("Day 2 is Monday.")
if day == 3:
    print("Day 3 is Tuesday.")
if day == 4:
    print("Day 4 is Wednesday.")
if day == 5:
    print("Day 5 is Thursday.")
if day == 6:
    print("Day 6 is Friday.")
else:
    print("Day 7 is Saturday.")
```

```
# Determine the sum of an arbitrary number of integers
# User enters 0 to quit
total = 0
while True:
    val = input("Enter a value (or 0 to quit): ")
    if val == 0:
        break
    total += int(val)
print("The sum is", total)
```