

## Code With Mistake Comments

```
print("Simple Calculator")
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
print("1.Add 2.Sub 3.Mul 4.Div")
choice = int(input("Choose option: "))

if choice == 1:
result = a + b # Error: No indentation
elif choice == 2 # Error: Missing colon :
result = a - b # Error: No indentation
elif choice == 3:
result = a * b # Error: No indentation
elif choice == 4:
result = a / b # Error: No indentation
else:
print("Invalid choice") # Error: No indentation
print("Result:", result)
if result > 0:
print("Positive result") # Error: No indentation
else:
print("Negative result") # Error: No indentation
```

## Mistakes Explanation

1. No indentation after if/elif/else statements.
2. Missing colon (:) after 'elif choice == 2'.
3. 'result' variable may be undefined if invalid choice selected.

## Correct Code

```
print("Simple Calculator")

a = int(input("Enter first number: "))
b = int(input("Enter second number: "))

print("1.Add 2.Sub 3.Mul 4.Div")
choice = int(input("Choose option: "))

result = None
```

```
if choice == 1:
    result = a + b
elif choice == 2:
    result = a - b
elif choice == 3:
    result = a * b
elif choice == 4:
    if b != 0:
        result = a / b
    else:
        print("Cannot divide by zero")
else:
    print("Invalid choice")

if result is not None:
    print("Result:", result)
    if result > 0:
        print("Positive result")
    elif result < 0:
        print("Negative result")
    else:
        print("Zero result")
```