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Assignment 1
Output:
1. Problem 1
void main1() {
if (true) {
int number = 42; }
print(number);
}
main1(); =Undefined
2. Problem 2
void main2() {
int value;
if (false) { value = 100; }
print(value); }
main2(); =Nan
3. Problem 3
int count = 5;
void main3() {
int count = 10;
print(count); }
main3(); =10
4. Problem 4
void main4() {
for (int i = 0; i < 3; i++) {
String message = "Loop $i";
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print(message); }
print(message); }
main4(); = Error
5. Problem 5
void processNumber(int num)
{ num = num + 1; }
void main5() {
print(num);
int x = 5; processNumber(x);
print(x); }
main5();= Error
6. Problem 6
void main6() {
bool isActive = false;
if (true) { bool isActive = true;
print(isActive); } print(isActive); }
main6();= True
=False
7. Problem 7
void main7() {
int result = 0; {
int result = 50;
print(result); }
print(result); }
main7();= 50
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=0
8. Problem 8
void main8() {
if (true) {
String name = "Alice"; }
else {
String name = "Bob"; }
print(name); }
main8();=Error
9. Problem 9
double price = 9.99;
void applyDiscount() {
price = price * 0.9; }
void main9() {
double price = 20.00;
applyDiscount();
print(price); }
main9(); =20.0
10. Problem 10
void main10() {
while (true) {
int counter = 0;
counter++;
print(counter);
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break; }

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print(counter); }
main10(); =Error
11. Problem 11
void updateValue(int val) {
val = 50; }
void main11() {
int x = 10;
if (x > 0) { updateValue(x);
int y = x + 5; }
print(y); }
main11(); =Error
12. Problem 12
String status = "Idle";
void toggleStatus() {
String status = "Active"; }
void main12() {
toggleStatus();
print(status); }
main12();=Idle
13. Problem 13
void main13() {
bool flag = false;
void innerFunc() {
flag = true;
int count = 10; }
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innerFunc();
print(count); }
main13();=Error
14. Problem 14
void compute(int num) {
if (num > 0) {
String message = "Positive"; } }
void main14() {
compute(5);
print(message); }
main14()= Error
15. int score = 100;
void resetScore() {
score = 0; }
void adjustScore() {
int score = 50;
resetScore(); }
void main15() {
adjustScore();
print(score); }
main15();= 0
16. void main16() {
double average = 0.0;
{ int count = 3; {
double total = 15.0;
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average = total / count; }
print(total); }
print(average); }=Error
17. Problem 17
void increment(int value) {
value += 1; }
void main17() {
int sum = 0;
for (int i = 0; i < 3; i++) {
increment(i);
if (i == 2) { bool done = true;
sum += i; } }
print(done); }
main17();=Error</pre>
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