```
Problem 1
void main1() { if (true) {
int number = 42;
}
print(number);
}
main1();
Output:Undefined
Problem 2
void main2() { int value;
if (false) { value = 100;
}
print(value);
}
main2();
Output:Undefined
Problem 3
int count = 5; void main3() { int count = 10; print(count);
}
main3();
```

Output:10

```
Problem 4
void main4() {
for (int i = 0; i < 3; i++) { String message = "Loop $i"; print(message);
}
print(message);
}
main4();
Output: Loop $0
Loop $1
Loop $2
Undefined
Problem 5
void processNumber(int num) { num = num + 1;
}
void main5() { print(num); int x = 5;
processNumber(x); print(x);
}
main5();
Output:Undefined
Problem 6
void main6() {
bool isActive = false; if (true) {
bool isActive = true; print(isActive);
```

```
}
print(isActive);
}
main6();
Output:false
Problem 7 void main7() { int result = 0;
{
int result = 50; print(result);
}
print(result);
}
main7();
Output:0
Problem 8
void main8() { if (true) {
String name = "Alice";
} else {
String name = "Bob";
}
print(name);
}
main8();
```

Output:Undefined

```
Problem 9
double price = 9.99;
void applyDiscount() { price = price * 0.9;
}
void main9() {
double price = 20.00; applyDiscount(); print(price);
}
main9();
Output:20.00
Problem 10 void main10() { while (true) {
int counter = 0; counter++; print(counter); break;
}
print(counter);
}
main10();
Output:Undefined
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();
Output:15
Problem 12
String status = "Idle"; void toggleStatus() { String status = "Active";
}
void main12() { toggleStatus(); print(status);
}
main12();
Output:Idle
Problem 13 void main13() { bool flag = false;
void innerFunc() { flag = true;
int count = 10;
innerFunc(); print(count);
}
main13();
```

Output:undefined

```
void compute(int num) { if (num > 0) {
String message = "Positive";
}
}
void main14() { compute(5); print(message);
}
main14()
Output:Undefined
Problem 15
int score = 100; void resetScore() { score = 0;
}
void adjustScore() { int score = 50; resetScore();
}
void main15() { adjustScore(); print(score);
}
main15();
Output:100
Problem 16
void main16() {
double average = 0.0;
{
int count = 3;
{
double total = 15.0; average = total / count;
```

}

```
print(total);
}
Output:Function did not called

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();</pre>
```

Output:Undefined