

```
function Add(){
  console.log(answer)
  var answer = 2
};
Add()
```

```
var temp= 'hi';
function display(){
  console.log(temp);
  var temp = 'bye';
};
display();
```

```
var a = 1;
function b() {
  a = 10;
  return;
  function a() {}
}
b();
console.log(a);
```

```
function foo()
{
  function bar()
  {
    return 3;
  }
  return bar();
}
```

```
function bar()
{
  return 8;
}}
```

```
alert(foo());
```

```
function parent() {
  var hoisted = "I'm a variable";
  function hoisted() {    return "I'm a function";  }
  return hoisted();
}
console.log(parent());
```

```
alert(foo());
```

```
function foo() {
var bar = function()
{  return 3; };
return bar();
var bar = function() {
  return 8;
};
}
```

```
var myVar = 'foo';
(function() { console.log('Original value was: ' + myVar);
var myVar = 'bar'; console.log('New value is: ' + myVar);})();
```

```
function foo(a) {
  a();
  function a() {
    console.log("yay");
  }
}
```

```
foo(); // ??
foo( undefined ); // ??
foo( function(){ console.log("bam"); } ); // ??
```

What is the output of this program?

```
1| var fn22 = 1;
```

```
2| function gn22() {  
3|   if (!fn22) {  
4|     var fn22 = 2;  
5|   }  
6|   console.log(fn22);  
7| }  
8| gn22();
```

What is the output of this program?

```
1| var a23 = 1;  
2| function b24() {  
3|   a23 = 10;  
4|   return;  
5|   function a23() {  
6|     return 11;  
7|   }  
8| }  
9| b24();  
10| console.log(a23);  
,
```

What is the output of this program?

```
1| var a44 = 1;  
2| console.log(a44);  
3| if (true) {  
4|   var a44 = 2;  
5|   console.log(a44);  
6| }  
7| console.log(a44);
```

What is the output of this program?

```
1| function f25() {  
2|   var x55 = 91;  
3|   if (x55) {  
4|     (function () {  
5|       var x55 = 82;  
6|       console.log(x55);  
7|     })();  
8|     console.log(x55);  
9|   }  
10|   console.log(x55);  
11| }  
12| f25();
```

What is the output of this program?

```
1| function f28() {  
2|   var x56 = 94;  
3|   if (false) {  
4|     (function () {  
5|       var x56 = 83;  
6|       console.log(x56);  
7|     })();  
8|     console.log(x56);  
9|   }  
10|   console.log(x56);  
11| }  
12| f28();
```

What is the output of this program?

```
1| function main() {  
2|   try { f77(); } catch(e) { console.log(e); };  
3|   try { b78(); } catch(e) { console.log(e); };  
4|   var f77 = function () {  
5|     console.log("f77");  
6|   }  
7|   function b78() {  
8|     console.log("b78");  
9|   }  
10| }  
11| main();
```

```
function test()  
{  
  if (false) {  
    let x = 50;  
  }  
  
  console.log(x);  
  console.log(y);  
  
  let y = 100;  
  console.log(y);  
}
```

```
test();
```

```
function test()
{
  foo();
  bar();

  // Function defined
  // using function declaration
  function foo()
  {
    console.log('foo');
  }

  // Function defined
  // using function expression
  var bar = function() {
    console.log('bar');
  }
}

test();
```