1- Assume the following JavaScript program was interpreted using static- scoping rules. What value of x is displayed in function sub1 ? Under dynamic- scoping rules, what value of x is displayed in function sub1 ?

```
var x;
function sub1() {
        document.write("x = " + x + "");
}
function sub2() {
        var x;
        x = 10;
        sub1();
}
x = 5;
sub2();
```

2- Consider the following Python program:

```
x = 1;
y = 3;
z = 5;
def sub1():
  a = 7;
  y = 9;
  z = 11;
  . . .
def sub2():
  global x;
  a = 13;
  x = 15;
  w = 17;
  . . .
def sub3():
  nonlocal a;
  a = 19;
  b = 21;
  z = 23;
  . . .
```

List all the variables, along with the program units where they are declared, that are visible in the bodies of sub1 , sub2 , and sub3 , assuming static scoping is used.