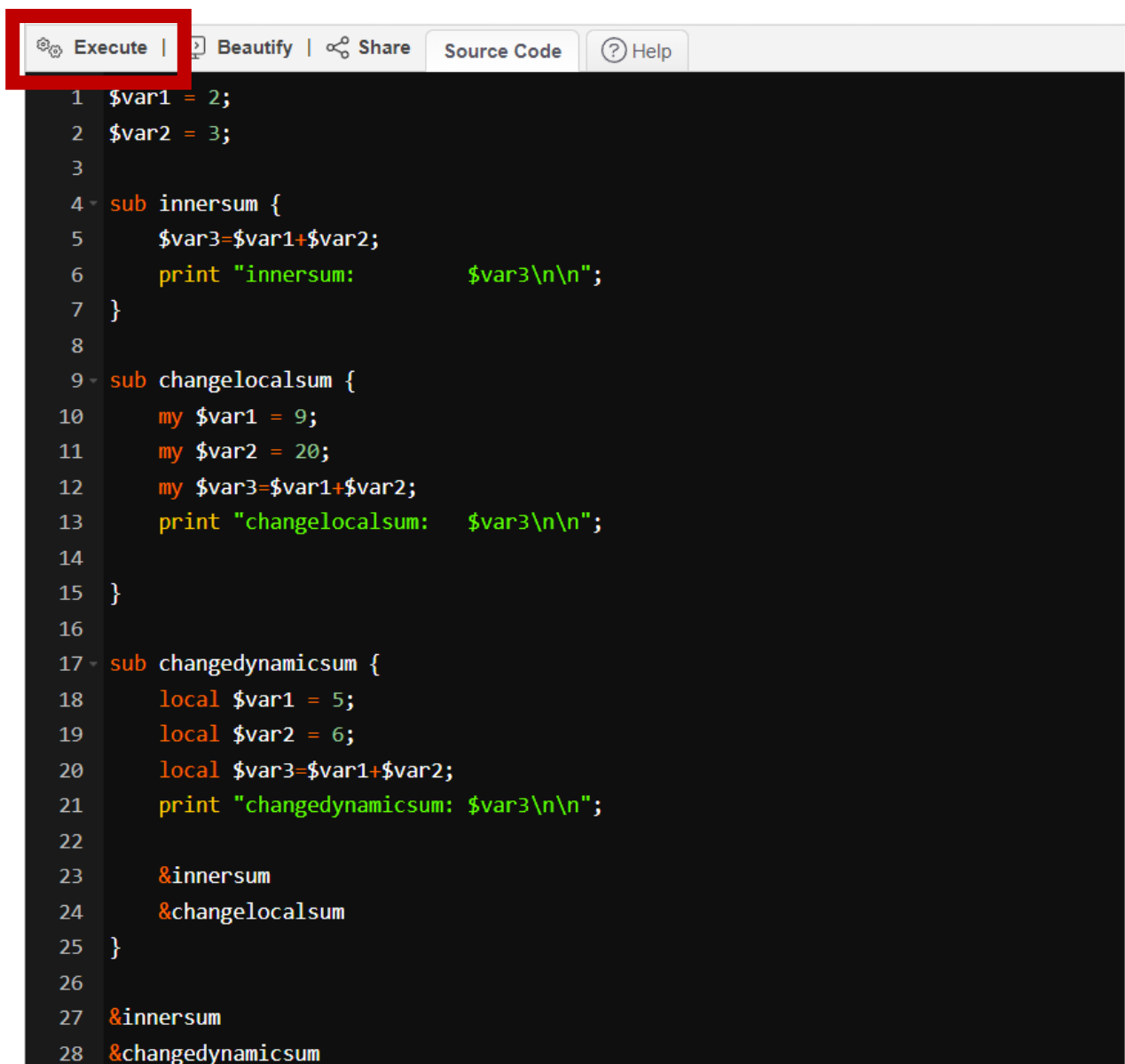Write a function in any programming language that will demonstrate dynamic scoping. The function should be executable. Please indicate what's the programming language used in your answer.
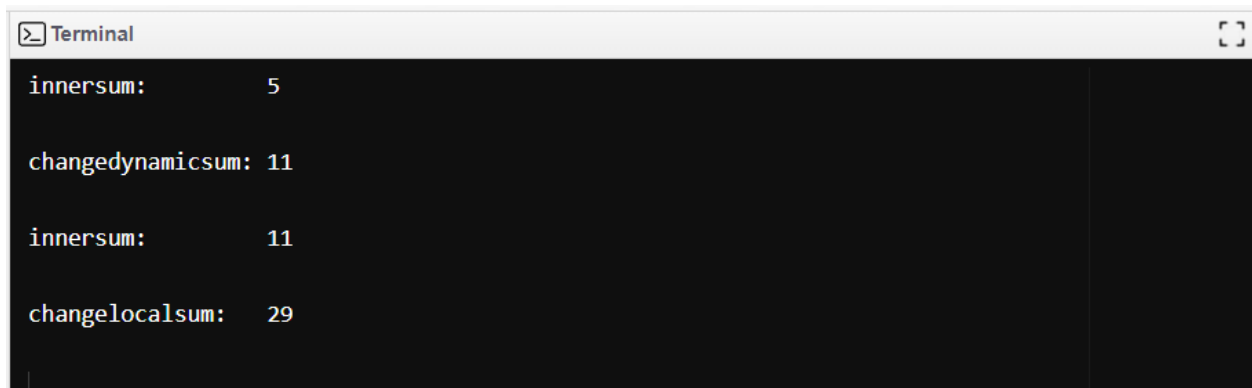
Steps for execution

1. Copy the code from *"Advanced Software Paradigms_CSCI_6221_10_Sagar_Sheth_HW1.txt"*.
2. Open the below link in the web browser.
   a. https://www.tutorialspoint.com/execute_perl_online.php
3. Paste the Code in and Click on the Execute Button.

⚙ Execute | 🔲 Beautify | ⤳ Share   Source Code   ⑦ Help

```perl
1   $var1 = 2;
2   $var2 = 3;
3
4   sub innersum {
5       $var3=$var1+$var2;
6       print "innersum:        $var3\n\n";
7   }
8
9   sub changelocalsum {
10      my $var1 = 9;
11      my $var2 = 20;
12      my $var3=$var1+$var2;
13      print "changelocalsum:   $var3\n\n";
14
15  }
16
17  sub changedynamicsum {
18      local $var1 = 5;
19      local $var2 = 6;
20      local $var3=$var1+$var2;
21      print "changedynamicsum: $var3\n\n";
22
23      &innersum
24      &changelocalsum
25  }
26
27  &innersum
28  &changedynamicsum
```

4. The below output should be displayed on the terminal.

```
Terminal
innersum:            5

changedynamicsum: 11

innersum:            11

changelocalsum:   29
```