Q.3 Declare Variable within different code blocks (enclosed by curly braces) and test their accessibility within and outside those blocks.

```c
#include <stdio.h>
int main () {
    int x = 10;
    Printf ("In main block x = %d/n", x);

    {
        int y = 20;
        Print f("In inner block x = %d, y = %d/n", x, y);

        {
            int z = 30;
            Print f ("In nexted block; x = %d, y = %d,
                      z = %d/n", x, y, z);

        }
    }

    return 0;
```

```c
2
3   int main() {
4       int x = 10;
5
6       printf("In main block x = %d\n", x);
7
8       {
9           int y = 20;
10
11          printf("In inner block x = %d, y = %d\n", x, y);
12
13          {
14              int z = 30;
15
16              printf("In nested block x = %d, y = %d, z = %d\n", x,
                    y, z);
17          }
18
19          // Trying to access 'z' here would cause a compilation
                error.
20      }
21
22      // Trying to access 'y' here would cause a compilation error.
23
24      return 0;
25  }
```

Output

```
In main block x = 10
In inner block x = 10, y = 20
In nested block x = 10, y = 20, z = 30


=== Code Execution Successful ===
```