```
#include <stdio.h>
int main()
}
   int a=1;
   int b=1;
}
      int b=2;
}
        int a=3;
//       cout << a << b;
      printf("The value of a in B3 = %d\n", a) ;
      printf("The value of b in B3 = %d\n", b);
{
}
         int b=4;
 //          cout << a << b;
      printf("The value of a in B4 = %d\n", a) ;
      printf("The value of b in B4 = %d\n", b);
{
//       cout << a << b;
      printf("The value of a in B2 = %d\n", a) ;
      printf("The value of b in B2 = %d\n", b);
{
 //    printf("Hello World");
 //    cout << a << b;
   printf("The value of a in B1 = %d\n", a) ;
   printf("The value of b in B1 = %d\n", b);
   return 0;
{
```

The output
The value of a in B3 = 3
The value of b in B3 = 2
The value of a in B4 = 1
The value of b in B4 = 4
The value of a in B2 = 1
The value of b in B2 = 2
The value of a in B1 = 1
The value of b in B1 = 1
...Program finished with exit code 0
Press ENTER to exit console.

```
main() {
    int a = 1;                                   B1
    int b = 1;
    {
        int b = 2;                               B2
        {
            int a = 3;                           B3
            cout << a << b;
        }
        {
            int b = 4;                           B4
            cout << a << b;
        }
        cout << a << b;
    }
    cout << a << b;
}
```

Figure 1.10: Blocks in a C++ program

The output
The value of a in B3 = 3
The value of b in B3 = 2
The value of a in B4 = 1
The value of b in B4 = 4
The value of a in B2 = 1
The value of b in B2 = 2
The value of a in B1 = 1
The value of b in B1 = 1
...Program finished with exit code 0
Press ENTER to exit console.