Lab 16

```
1   #include <stdio.h>
2   main()
3   {
4
5       float speed = 0;
6       int finish = 0;
7       char con = 'y';
8
9       while (con == 'y')
10      {
11          printf("Please enter Wind Speed (knots) : ");
12          scanf("%f", &speed);
13          printf("\n");
14          while (speed < 0)
15          {
16              printf("\"Enter more than or equal 0\"\n");
17              speed = 0;
18              finish = 1;
19          }
20          while (speed >= 0 && finish == 0)
21          {
22              while (speed >= 0 && speed < 1.00 && finish == 0)
23              {
24                  printf(" Description : Calm");
25                  finish = 1;
26                  speed = 0;
27              }
28              while (speed >= 1.00 && speed < 3.5 && finish == 0)
```

```
29          {
30              printf("Description : Light Air");
31              finish = 1;
32              speed = 0;
33          }
34          while (speed >= 3.5 && speed < 27.5 && finish == 0)
35          {
36              printf("Description : Breeze");
37              finish = 1;
38              speed = 0;
39          }
40          while (speed >= 27.5 && speed < 47.5 && finish == 0)
41          {
42              printf("Description : Gale");
43              finish = 1;
44              speed = 0;
45          }
46          while (speed >= 47.5 && speed < 63.5 && finish == 0)
47          {
48              printf("Description : Storm");
49              finish = 1;
50              speed = 0;
51          }
52          while (speed >= 63.5 && finish == 0)
53          {
54              printf("Description : Hurricane");
55              finish = 1;
56              speed = 0;
57          }
58          printf("\n\n");
```

```
59              while (finish == 1)
60              {
61                  printf("Continue Program ?(y/N) :");
62                  scanf(" %c", &con);
63                  speed = 0;
64                  finish = 2;
65              }
66              while (con == 'N')
67              {
68                  printf("\"End Program\"");
69                  break;
70              }
71          }
72          finish = 0;
73          printf("\n\n");
74      }
75  }
```