## Lab 22

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

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

```
59
              scanf(" %c", &con);
              printf("\n");
60
              if (con == 'y' \parallel con == 'N')
61
62
                 finish = 0;
63
              }
64
65
              else
              {
66
                 printf("\"Enter 'y' or 'N' only\"\n\n");
67
68
                 finish = 1;
69
              }
            }
70
           while (con == 'N')
71
72
              printf("\"End Program\"\n\n");
73
              break;
74
75
            }
           speed = 0;
76
77
     }
78
     }
```