#### **Source Code**

```
★ Welcome

               C practice_problem1.c X
 C practice problem1.c > 分 main()
       #include <stdio.h>
       int main() {
   3
   4
           float a, b, c;
   5
            printf("Enter the three side of the triangle: ");
   6
           scanf("%f %f %f", &a, &b, &c);
   7
   8
            if (a + b > c && b + c > a && c + a > b) {
   9
  10
                if (a == b \&\& b == c) {
                    printf("The triangle is Equilateral.\n");
  11
  12
                } else if (a == b || b == c || a == c) {
  13
                    printf("The triangle is Isosceles.\n");
                } else {
  14
  15
                    printf("The triangle is Scalene.\n");
  16
  17
            } else {
  18
                printf("The triangle is not valid.\n");
  19
  20
  21
            return 0;
  22
```

```
• parvej@parvej:~/Documents/CSE Lab Report/Lab ! ort/Lab 5/"practice_problem1 Enter the three side of the triangle: 1 2 3 The triangle is not valid.
```

```
    parvej@parvej:~/Documents/CSE Lab Report/Lab 5$
    ort/Lab 5/"practice_problem1
    Enter the three side of the triangle: 12 13 16
    The triangle is Scalene.
```

#### **Source Code**

```
c practice problem2.c > ( main()
 1
      #include <stdio.h>
 2
 3
      int main() {
 4
          char ch;
 5
 6
          printf("Enter a character: ");
 7
          scanf("%c", &ch);
 8
 9
          switch(ch) {
10
              case 'a':
              case 'e':
11
12
              case 'i':
13
              case 'o':
14
              case 'u':
15
              case 'A':
              case 'E':
16
17
              case 'I':
18
              case '0':
19
              case 'U':
20
                   printf("%c is a vowel.\n", ch);
21
                   break:
22
               default:
                   if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
23
                       printf("%c is a consonant.\n", ch);
24
25
                   } else {
                       printf("Invaid input.\n");
26
27
28
                   break;
29
30
31
         return 0;
32
```

```
    parvej@parvej:~/Documents/CSE
ocuments/CSE Lab Report/Lab 5/
Enter a character: e
e is a vowel.
```

```
    parvej@parvej:~/Documents/CSE I
ocuments/CSE Lab Report/Lab 5/'
Enter a character: 2
Invaid input.
```

#### **Source Code**

```
c practice problem3.c > ...
                                  parvej@parvej:~/Documents/CSE Lab Report/Lab 5$
 1
     #include <stdio.h>
                                  ort/Lab 5/"practice problem3
 2
                                  Enter the salary: 7000
     int main()
                                  The bonus for a salary of 7000.00 is: 350.00
 3
 4
      {
 5
          float salary, bonus;
 6
 7
          printf("Enter the salary: ");
          scanf("%f", &salary);
 8
 9
10
          int range;
          if (salary > 8000 && salary <= 10000)
11
12
13
             range = 1;
14
15
          else if (salary > 6000 && salary <= 8000)
16
17
             range = 2;
18
19
          else if (salary > 3000 && salary <= 6000)
20
21
             range = 3;
22
23
          else
24
25
             range = 4;
26
27
28
          switch (range)
29
          {
          case 1:
30
31
              bonus = salary * 0.08;
32
              break;
33
          case 2:
              bonus = salary * 0.05;
34
35
              break;
36
          case 3:
37
              bonus = salary * 0.02;
38
              break;
39
          default:
40
              bonus = salary * 0.01;
41
42
43
          printf("The bonus for a salary of %.2f is: %.2f\n", salary, bonus);
44
          return 0;
45
```

#### **Source Code**

```
C practice_problem4.c > ...
1  #include <stdio.h>
2
3  int main() {
4     int num;
5     printf("Enter a number: ");
6     scanf("%d", &num);
7
8     (num % 3 == 0) ? printf("%d is divisible by 3.\n", num) : printf("%d is not divisible by 3.\n", num);
9
10     return 0;
11 }
```

```
parvej@parvej:~/Documents/CSE Lab Report/Lab 5$ @
ocuments/CSE Lab Report/Lab 5/"practice_problem4
Enter a number: 12
12 is divisible by 3.
```

```
parvej@parvej:~/Documents/CSE Lab Report/Lab 5$ @
ocuments/CSE Lab Report/Lab 5/"practice_problem4
Enter a number: 17
17 is not divisible by 3.
```

#### **Source Code**

```
c practice_problem5.c > 分 main()
      #include <stdio.h>
 2
 3
     int main()
 4
 5
          int a, b, c, smallest;
 6
 7
          printf("Enter three numbers: ");
 8
          scanf("%d %d %d", &a, &b, &c);
 9
          smallest = (a < b) ? ((a < c) ? a : c) : ((b < c) ? b : c);
10
11
          printf("The smallest number is: %d\n", smallest);
12
13
14
          return 0;
15
```

```
    parvej@parvej:~/Documents/CSE Lab Report/Lab 5$
    ocuments/CSE Lab Report/Lab 5/"practice_problem!
    Enter three numbers: 12 2 4
    The smallest number is: 2
```