```
□ □ ■ Console 🛭
i Ex_1.c ⋈
 19/*
                                                                     <terminated> (exit value: 0) Ex 1.exe [C/C++ Application]
 2 * Ex_1.c
                                                                     Enter an integer you want to check: 5
 3 *
                                                                     5 is odd
 4 * Created on: Jul 31, 2021
 5 *
6 */
            Author: Sarah
 8
 9 #include <stdio.h>
10
110 int main(){
12
       int input;
        printf("Enter an integer you want to check: ");
13
14
        fflush(stdout);
15 fflush(stdin);
        scanf("%d", &input);
if(input % 2 == 0)
16
17
18
           printf("%d is even", input);
19
20
            printf("%d is odd", input);
21
        return 0;
22 }
23
```

```
□ □ ■ Console 🛭
Ex_1.c ⋈
 1⊕/*
                                                                     <terminated> (exit value: 0) Ex_1.exe [C/C++ Application]
 2 * Ex_1.c
                                                                     Enter an integer you want to check: 6
 3 *
                                                                     6 is even
 4 * Created on: Jul 31, 2021
 5 *
            Author: Sarah
 6 */
 8
 9 #include <stdio.h>
10
11⊖ int main(){
12
       int input;
13
        printf("Enter an integer you want to check: ");
        fflush(stdout);
15 fflush(stdin);
        scanf("%d", &input);
if(input % 2 == 0)
16
17
18
            printf("%d is even", input);
19
20
            printf("%d is odd", input);
21
        return 0;
22 }
23
```

```
□ □ ■ Console 🛭
Ex_2.c ⋈
 1⊕ /*
                                                                       <terminated> (exit value: 0) Ex_2.exe [C/C++ Application]
 2 * Ex_2.c
                                                                       Enter an alphabet: k
 3 *
                                                                       k is a consonant
 4 * Created on: <u>Jul</u> 31, 2021
 5 *
6 */
            Author: Sarah
 8 #include <stdio.h>
10⊖ int main(){
     char input;
11
       printf("Enter an alphabet: ");
12
     fflush(stdout);
fflush(stdin);
13
     scanf("%c", &input);
15
      switch(input){
    case 'a':
    case 'e':
16
17
18
            case 'i':
19
20
            case 'o':
            case 'u':{
21
                printf("%c is a vowel", input);
22
23
                break;
24
            default:{
25
                 printf("%c is a consonant", input);
26
27
                 break;
28
29
30
        return 0;
31 }
32
```

```
□ □ ■ Console 🛭
1⊕/*
                                                                  <terminated> (exit value: 0) Ex_2.exe [C/C++ Application]
 2 * Ex_2.c
                                                                  Enter an alphabet: i
 3 *
                                                                  i is a vowel
 4 * Created on: Jul 31, 2021
 5 *
           Author: Sarah
 6 */
 8 #include <stdio.h>
10⊖ int main(){
11
      char input;
       printf("Enter an alphabet: ");
       fflush(stdout);
13
     fflush(stdin);
14
15
     scanf("%c", &input);
16
      switch(input){
           case 'a':
case 'e':
17
18
           case 'i':
19
           case 'o':
20
21
           case 'u':{
22
               printf("%c is a vowel", input);
23
               break;
24
            default:{
25
               printf("%c is a consonant", input);
26
27
               break;
28
29
       }
30
        return 0;
31 }
32
```

```
- -
Ex_3.c ⋈
                                                                      ■ Console XX
 1⊕ /*
                                                                      <terminated> (exit value: 0) Ex_3.exe [C/C++ Application]
 2 * Ex_3.c
                                                                      Enter three numbers: 4 8 1
 3 *
                                                                      Largest number = 8.000000
 4 * Created on: Jul 31, 2021
           Author: Sarah
 6 */
 8 #include <stdio.h>
100 int main(){
float num, max;
       printf("Enter three numbers: ");
12
       fflush(stdout);
13
14
      scanf("%f", &num);
15
       max = num;
        for(int i = 1; i < 3; i++){
    scanf("%f", &num);</pre>
16
17
            if(num > max)
18
19
                max = num;
20
        printf("Largest number = %f", max);
21
22
        return 0;
23 }
24
```

```
□ □ ■ Console 🛭
Ex 4.c ⋈
 1⊕/*
                                                                   <terminated> (exit value: 0) Ex_4.exe [C/C++ Application]
 2 * Ex_4.c
                                                                   Enter a number: -5
 3 *
                                                                   -5.000000 is negative
 4 * Created on: Jul 31, 2021
 5 *
            Author: Sarah
 6 */
 8 #include <stdio.h>
10⊖ int main(){
       float num;
11
12
        printf("Enter a number: ");
       fflush(stdout);
13
       scanf("%f", &num);
14
       if(num > 0)
15
            printf("%f is positive", num);
16
17
        else if(num < 0)</pre>
           printf("%f is negative", num);
18
19
            printf("You entered zero.");
20
21
22
        return 0;
23 }
24
```

```
Ex_4.c ⋈
                                                                        ■ Console ≅
 1⊖/*
2 * Ex_4.c
                                                                        <terminated> (exit value: 0) Ex_4.exe [C/C++ Application]
                                                                        Enter a number: 6
 3 *
                                                                        6.000000 is positive
 4 * Created on: Jul 31, 2021
5 * Author: Sarah
 6 */
 8 #include <stdio.h>
 9
100 int main(){
        float num;
11
12
        printf("Enter a number: ");
        fflush(stdout);
13
        scanf("%f", &num);
14
15
        if(num > 0)
            printf("%f is positive", num);
16
17
        else if(num < 0)</pre>
            printf("%f is negative", num);
18
19
            printf("You entered zero.");
20
21
22
        return 0;
23 }
24
```

```
□ □ ■ Console 🛭
Ex_4.c ⋈
 1⊕/*
                                                                    <terminated> (exit value: 0) Ex_4.exe [C/C++ Application]
 2 * Ex_4.c
                                                                    Enter a number: 0
 3 *
                                                                    You entered zero.
 4 * Created on: Jul 31, 2021
 5 *
            Author: Sarah
 6 */
 8 #include <stdio.h>
100 int main(){
11
       float num;
12
        printf("Enter a number: ");
        fflush(stdout);
13
        scanf("%f", &num);
14
15
        if(num > 0)
            printf("%f is positive", num);
16
17
        else if(num < 0)</pre>
           printf("%f is negative", num);
18
19
        else
            printf("You entered zero.");
20
21
22
        return 0;
23 }
24
```

```
□ □ ■ Console 🛭
Ex_5.c ⋈
 1⊕/*
                                                                      <terminated> (exit value: 0) Ex_5.exe [C/C++ Application]
 2 * Ex_5.c
                                                                      Enter a character: 4
 3
                                                                      4 is not an alphabet
 4 * Created on: Jul 31, 2021
 5 *
            Author: Sarah
 8 #include <stdio.h>
10⊖ int main(){
11
       char ch;
        printf("Enter a character: ");
12
13
        fflush(stdout);
        scanf("%c", &ch);
if((ch >= 97 && ch <= 122) || (ch >= 65 && ch <= 90))</pre>
14
15
             printf("%c is an alphabet", ch);
16
17
            printf("%c is not an alphabet", ch);
18
19
        return 0;
20
21 }
22
```

```
□ □ ■ Console 🛭
Ex_5.c ⋈
 19/*
                                                                     <terminated > (exit value: 0) Ex_5.exe [C/C++ Application]
 2 * Ex_5.c
                                                                     Enter a character: k
 3 *
                                                                     k is an alphabet
 4 * Created on: Jul 31, 2021
 5 *
6 */
            Author: Sarah
 8 #include <stdio.h>
10⊖ int main(){
       char ch;
printf("Enter a character: ");
11
12
       fflush(stdout);
13
14
        scanf("%c", &ch);
        if((ch >= 97 && ch <= 122) || (ch >= 65 && ch <= 90))
15
            printf("%c is an alphabet", ch);
16
17
18
            printf("%c is not an alphabet", ch);
19
20
        return 0;
21 }
22
```

```
© Ex_6.c ⊠
                                                                    ■ Console ≅
 1⊖/*
                                                                     <terminated> (exit value: 0) Ex_6.exe [C/C++ Application]
 2 * Ex_6.c
                                                                     Enter an integer: 60
 3 *
                                                                     Sum = 1830
 4 * Created on: <u>Jul</u> 31, 2021
           Author: Sarah
 6 */
 8 #include <stdio.h>
 9
10⊖ int main(){
       int num, sum = 0;
11
        printf("Enter an integer: ");
12
       fflush(stdout);
13
        scanf("%d", &num);
14
15
        for(int i = 1; i <= num; i++){</pre>
16
            sum += i;
17
        printf("Sum = %d", sum);
18
        return 0;
19
20 }
21
```

```
□ □ ■ Console 🛭
Ex_7.c ⋈
                                                                     <terminated> (exit value: 0) Ex_7.exe [C/C++ Application]
 1⊕/*
 2 * Ex_7.c
                                                                     Enter an integer: 10
 3 *
                                                                     Factorial = 3628800
 4 * Created on: <u>Jul</u> 31, 2021
            Author: Sarah
  6 */
 8 #include <stdio.h>
 10⊖ int main(){
 11
       int num, fact = 1;
 12
        printf("Enter an integer: ");
 13
        fflush(stdout);
        scanf("%d", &num);
 14
 15
        if(num < 0)
            printf("Error!!! Factorial of negative number doe:
 16
 17
        else{
 18
            for(int i = 1; i <= num; i++){</pre>
                fact *= i;
19
 20
            printf("Factorial = %d", fact);
 21
 22
 23
        return 0;
24 }
25
```

```
Ex_8.c ⋈
 1⊕ /*
                                                                    <terminated> (exit value: 0) Ex_8.exe [C/C++ Application]
 2 * Ex_8.c
                                                                    Enter operator either + or - or * or /: *
 3 *
                                                                    Enter two operands: 2 3
 4 * Created on: Jul 31, 2021
                                                                    2.000000 * 3.000000 = 6.000000
           Author: Sarah
 6 */
 8 #include <stdio.h>
100 int main(){
       char choice;
11
        float x, y;
12
13
        printf("Enter operator either + or - or * or /: ");
        fflush(stdout);
14
        scanf("%c", &choice);
15
        printf("Enter two operands: ");
16
        fflush(stdout);
17
        scanf("%f %f", &x, &y);
18
        switch(choice){
19
                case '+':{
20
                    printf("%f + %f = %f", x, y, x + y);
21
22
                    break;
23
24
                case '-':{
                    printf("%f - %f = %f", x, y, x - y);
25
26
                    break;
27
                case '*':{
28
                    printf("%f * %f = %f", x, y, x * y);
29
30
                    break;
31
                }
                case '/':{
32
                    printf("%f / %f = %f", x, y, x / y);
33
34
                    break;
35
                }
36
            }
37
        return 0;
38 }
```