

PF-LAB-4

1

```
C 1.c X
C 1.c
1  #include <stdio.h>
2  int main() {
3      int num1;
4      printf("Enter a number:");
5      scanf("%d",&num1);
6      if (num1%3 ) {
7          printf("This number is not multiple of 3");
8      } else printf("This number is a amultiple of 3");
9      return 0;
10 }
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

C:\Users\k241020\Desktop\ASSIGNMENT>gcc 1.c -o 1.exe

C:\Users\k241020\Desktop\ASSIGNMENT>1.exe
Enter a number:15
This number is a amultiple of 3
C:\Users\k241020\Desktop\ASSIGNMENT>
```

2

```
C 2.c
1  #include <stdio.h>
2  ~ int main() {
3      int num1, num2;
4      char operator;
5      float result;
6      printf("Enter number 1:");
7      scanf("%d", &num1);
8      printf("\nEnter number 2:");
9      scanf("%d", &num2);
10     printf("\nEnter the operator(+,-,*,/): ");
11     scanf(" %c", &operator);
12     ~ switch(operator) {
13         case '+':
14             result = num1 + num2;
15             printf("Resultant is %.2f", result);
16             break;
17         case '-':
18             result = num1 - num2;
19             printf("Resultant is %.2f", result);
20             break;
21         case '*':
22             result = num1 * num2;
23             printf("Resultant is %.2f", result);
24             break;
25     ~ case '/':
26         ~ if (num2 != 0) {
27             printf("Resultant is %.2f", result);
28         } else printf("ERROR: Denominator is 0");
29         break;
30         default: printf("Invalid Operator!");
31     }
32     return 0;
33
34 }
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

C:\Users\k241020\Desktop\ASSIGNMENT>gcc 2.c -o 2.exe

C:\Users\k241020\Desktop\ASSIGNMENT>2.exe
Enter number 1:12

Enter number 2:7

Enter the operator(+,-,*,/): -
Resultant is 5.00
C:\Users\k241020\Desktop\ASSIGNMENT>
```

3

```
C 3.c > main()
1  #include <stdio.h>
2  int main() {
3      char ch;
4      printf("Enter a character: ");
5      scanf("%c", &ch);
6      if(ch >= 'a' && ch <= 'z') {
7          printf(" %c is a lowercase alphabet.\n", ch);
8      }
9      else if(ch >= 'A' && ch <= 'Z') {
10         printf(" %c is a uppercase letter.\n", ch);
11     }
12     else if(ch >= '0' && ch <= '9') {
13         printf(" %c is a digit.\n", ch);
14     }
15     else {
16         printf(" %c is a special character.", ch);
17     }
18     return 0;
19 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>gcc 3.c -o 3.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>3.exe

Enter a character: 4

4 is a number.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>3.exe

Enter a character: p

p is a lowercase alphabet.

p is a lowercase alphabet.

p is a lowercase alphabet.

p is a lowercase alphabet.

p is a lowercase alphabet.

p is a lowercase alphabet.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>3.exe

Enter a character: W

W is a uppercase letter.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>3.exe

Enter a character: \$

\$ is a special character.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>

4

```
C 4.c > main()
1  #include <stdio.h>
2  int main() {
3      int itemsCost, discount, discountedCost, savedCost;
4      printf("Enter Total Cost Of Items: ");
5      scanf("%d", &itemsCost);
6      if (itemsCost < 500) {
7          printf("NO DISCOUNT!");
8          printf("\nYour Total Cost:%d", itemsCost);
9      }
10     else if (itemsCost < 2000) {
11         discount = itemsCost * 0.05;
12         discountedCost = itemsCost - discount;
13         printf("YOU AVAILED THE DISCOUNT!");
14         printf("\nYour Total Cost: %d", itemsCost);
15         printf("\nDiscount: %d", discount);
16         printf("\nTotal Cost After Discount: %d", discountedCost);
17     }
18     else if (itemsCost >= 2000 || itemsCost <= 4000) {
19         discount = itemsCost * 0.1;
20         discountedCost = itemsCost - discount;
21         printf("YOU AVAILED THE DISCOUNT!");
22         printf("\nYour Total Cost: %d", itemsCost);
23         printf("\nDiscount: %d", discount);
24         printf("\nTotal Cost After Discount: %d", discountedCost);
25     }
26     else if (itemsCost > 4000 || itemsCost <= 6000) {
27         discount = itemsCost * 0.2;
28         discountedCost = itemsCost - discount;
29         printf("YOU AVAILED THE DISCOUNT!");
30         printf("\nYour Total Cost: %d", itemsCost);
31         printf("\nDiscount: %d", discount);
32         printf("\nTotal Cost After Discount: %d", discountedCost);
33     }
34     else if (itemsCost > 6000) {
35         discount = itemsCost * 0.35;
36         discountedCost = itemsCost - discount;
37         printf("YOU AVAILED THE DISCOUNT!");
38         printf("\nYour Total Cost: %d", itemsCost);
39         printf("\nDiscount: %d", discount);
40         printf("\nTotal Cost After Discount: %d", discountedCost);
41     }
42     return 0;
43 }
44 }
```

OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>gcc 4.c -o 4.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>4.exe
Enter Total Cost Of Items: 450
NO DISCOUNT!
Your Total Cost:450
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>4.exe
Enter Total Cost Of Items: 2400
YOU AVAILED THE DISCOUNT!
Your Total Cost: 2400
Discount: 240
Total Cost After Discount: 2160
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>4.exe
Enter Total Cost Of Items: 6400
YOU AVAILED THE DISCOUNT!
Your Total Cost: 6400
Discount: 640
Total Cost After Discount: 5760
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>|
```

5

OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>gcc 5.c -o 5.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>5.exe
Enter your ID: 1001
Enter your name: JAMES
Enter Units Consumed: 800
Customer ID: 1001
Customer Name: JAMES
Units Consumed: 800
Subcharges: 4308.00
Total Amount to Pay: 33028.00
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>|
```



```

C 5.c > main()
1  #include <stdio.h>
2  int main() {
3      int units, customerID;
4      char name[50];
5      float chargesPerUnit, totalAmount, subcharges, subChargedAmount;
6      printf("Enter your ID: ");
7      scanf("%d", &customerID);
8      printf("Enter your name: ");
9      scanf("%s", name);
10     printf("Enter Units Consumed: ");
11     scanf("%d", &units);
12     if(units < 200) {
13         printf("Customer ID: %d", customerID);
14         printf("\nCustomer Name: %s", name);
15         printf("\nUnits Consumed: %d", units);
16         chargesPerUnit = 16.2;
17         totalAmount = chargesPerUnit * units;
18         printf("\nTotal Amount to Pay: %.2f", totalAmount);
19     }
20     else if(units >= 200 && units < 300) {
21         printf("Customer ID: %d", customerID);
22         printf("\nCustomer Name: %s", name);
23         printf("\nUnits Consumed: %d", units);
24         chargesPerUnit = 20.10;
25         totalAmount = chargesPerUnit * units;
26         printf("\nTotal Amount to Pay: %.2f", totalAmount);
27     }
28     else if(units >= 300 && units < 500) {
29         printf("Customer ID: %d", customerID);
30         printf("\nCustomer Name: %s", name);

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31         printf("\nUnits Consumed: %d", units);
32         chargesPerUnit = 28.10;
33         totalAmount = chargesPerUnit * units;
34         printf("\nTotal Amount to Pay: %.2f", totalAmount);
35     }
36     else if(units >= 500) {
37         printf("Customer ID: %d", customerID);
38         printf("\nCustomer Name: %s", name);
39         printf("\nUnits Consumed: %d", units);
40         chargesPerUnit = 35.90;
41         totalAmount = chargesPerUnit * units;
42         if (totalAmount > 18000) {
43             subcharges = totalAmount * 0.15;
44             subChargedAmount = totalAmount + subcharges;
45             printf("\nSubcharges: %.2f", subcharges);
46             printf("\nTotal Amount to Pay: %.2f", subChargedAmount);
47         }
48         else{
49             printf("\nTotal Amount to Pay: %.2f", totalAmount);
50         }
51     }
52     return 0;
53 }

```

6

```
C 6.c > main()
1  #include <stdio.h>
2  int main() {
3      int n;      //positive integer
4      printf("Enter a positive number: ");
5      scanf("%d", &n);
6      if(n == 1) {
7          printf("ONE");
8      }
9      else if(n == 2) {
10         printf("TWO"); }
11     else if(n == 3) {
12         printf("THREE"); }
13     else if (n == 4) {
14         printf("FOUR"); }
15     else if(n == 5) {
16         printf("FIVE"); }
17     else if(n == 6) {
18         printf("SIX"); }
19     else if(n == 7) {
20         printf("SEVEN"); }
21     else if(n == 8) {
22         printf("EIGHT");
23     }
24     else if(n == 9) {
25         printf("NINE");
26     }
27     else{
28         printf("Greater than NINE");
29     }
30     return 0;
31 }
```

OUTPUT DEBUG CONSOLE TERMINAL PORTS

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>gcc 6.c -o 6.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>6.exe

Enter a positive number: 3

THREE

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>6.exe

Enter a positive number: 4

FOUR

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>6.exe

Enter a positive number: 10

Greater than NINE

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-4>

