

ASSINGMENT – 3

IF ELSE CONDITION

```
if-else > C++ 1qus.cpp > main()
1 // Write a program which takes the values of length and breadth from user and check if it is
2 // a square or not.
3 #include <iostream>
4 using namespace std;
5 int main()
6 {
7     int lenght, breath;
8     cout << "Enter the lenght of quadetral" << endl;
9     cin >> lenght;
10    cout << "Enter the breath of quadetral" << endl;
11    cin >> breath;
12    if (lenght == breath)
13    {
14        cout << "its a square";
15    }
16    else
17    {
18        cout << "its a rectangle";
19    }
20    return 0;
21 }
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
PS E:\Ranjan\c++ programing\if-else> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 1qus.cpp -o 1qus }
; if ($?) { .\1qus }
Enter the lenght of quadetral
5
Enter the breath of quadetral
4
its a rectangle
PS E:\Ranjan\c++ programing\if-else> S
```

if-else > C++ 2qus.cpp > main()

```
1 // Write a program to print absolute value of a number entered by the user
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     int n;
7     cout << "enter the number" << endl;
8     cin >> n;
9     if (n < 0)
10    {
11        n = n * (-1);
12    }
13    cout << "abslute value of n is:" << n;
14    return 0;
15 }
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
PS E:\Ranjan\c++ programing\if-else> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 2qus.cpp -o 2qus }
; if ($?) { .\2qus }
enter the number
-1
abslute value of n is:1
PS E:\Ranjan\c++ programing\if-else> 
```

```

if-else > C++ 3qus.cpp > main()
1 // Write a program to take input from user for Cost Price (C.P.) and Selling Price (S.P.) and calculate
2 // Profit or Loss
3 #include <iostream>
4 using namespace std;
5 int main()
6 {
7     int cp, sp, amount; // co=cost price //sp= selling price
8     cout << "enter the cost price" << endl;
9     cin >> cp;
10    cout << "Enter the selling price" << endl;
11    cin >> sp;
12    amount = sp - cp;
13    if (cp < sp)
14    {
15        cout << "profit amount is :" << amount << endl
16        | << "profit" << endl;
17    }
18    else if (cp > sp)
19    {
20        cout << "profit amount is :" << amount << endl
21        | << "loss" << endl;
22    }
23    else
24    {
25        cout << "profit amount is :" << amount << endl
26        | << "no loss no profit" << endl;
27    }
28    return 0;
29 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

PS E:\Ranjan\c++ programing> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 3qus.cpp -o 3qus } ; if ($?)
{ .\3qus }
enter the cost price
4000
Enter the selling price
9560
profit amount is :5560
profit
PS E:\Ranjan\c++ programing\if-else>

```

powershell
 Code

```

if-else > C++ 4qus.cpp > main()
1  // Write a program to print positive number entered by the user, if user enters a negative number,
2  // it is skipped
3  #include <iostream>
4  using namespace std;
5  int main()
6  {
7      int n;
8      cout << "Enter number" << endl;
9      cin >> n;
10     if (n > 0)
11     {
12         cout<<"your positive entered number is:"<<n;
13     }
14     else
15     {
16         cout << "you negative number error";
17     }
18     return 0;
19 }
20

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

PS E:\Ranjan\c++ programing\if-else> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 4qus.cpp -o 4qus } ; i
f ($?) { .\4qus }
Enter number
-6
you negative number error
PS E:\Ranjan\c++ programing\if-else>

```

+ ... ^ x

powershell

Code

```

if-else > C++ 5simple_calc.cpp > main()
1  // Create a calculator using switch statement to perform addition, subtraction, multiplication and division
2  #include <iostream>
3  using namespace std;
4  int main()
5  {
6      int num1, num2;
7      char op;
8      cout << "Enter any operator (+|-|*|/) to calculate your data:" << endl;
9      cin >> op;
10     cout << "Enter two numbers num1 & num2:"<<endl;
11     cin >> num1 >> num2;
12     switch (op)
13     {
14         case '+':
15             cout << "Sum of number1 and number2 is: " << num1 + num2;
16             break;
17         case '-':
18             cout << "Substraction of number1 and number2 is: " << num1 - num2;
19             break;
20         case '*':
21             cout << "Product of number1 and number2 is: " << num1 * num2;
22             break;
23         case '/':
24             cout << "Division of number1 and number2 is: " << num1 / num2;
25             break;
26         default:
27             cout << "You enter wrong input";
28             break;
29     }
30
31     return 0;
32 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

PS E:\Ranjan\c++ programing\if-else> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 5simple_calc.cpp -o 5s
imple_calc } ; if ($?) { .\5simple_calc }
Enter any operator (+|-|*|/) to calculate your data:
-
Enter two numbers num1 & num2:
6
8
Substraction of number1 and number2 is: -2
PS E:\Ranjan\c++ programing\if-else>

```

+ ... ^ x

powershell

Code

```
#else > C++ 6qus.cpp > main()
1 // Write a program to calculate marks to grades . Follow the conversion rule as given below
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     int m;
7     cout << "Enter your marks:" << endl;
8     cin >> m;
9     if (m>90 )
10     {
11         cout << "Your grade is A+" << endl;
12     }
13     else if ( m > 80)
14     {
15         cout << "Your grade is A" << endl;
16     }
17     else if ( m > 70)
18     {
19         cout << "Your grade is B+" << endl;
20     }
21     else if ( m > 60)
22     {
23         cout << "Your grade is B" << endl;
24     }
25     else if ( m > 50)
26     {
27         cout << "Your grade is C" << endl;
28     }
29     else if ( m > 40)
30     {
31         cout << "Your grade is D" << endl;
32     }
33     else if (m>30)
34     {
35         cout << "Your grade is E" << endl;
36     }
37     else if (m<30)
38     {
39         cout << "You ARE FAIL" << endl;
40     }
41     return 0;
42 }
43 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Ranjan\c++ programing\if-else> cd "e:\Ranjan\c++ programing\if-else\" ; if ($?) { g++ 6qus.cpp -o 6qus } ; if ($?) { .\6qus }
Enter your marks:
98
Your grade is A+
PS E:\Ranjan\c++ programing\if-else> |
```