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main.cpp

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```cpp
#include <iostream>
using namespace std;

int main() {
    int x = 2;
    int y = 4;

    if (x<=y)
        cout << "X is less than or equal to y." << endl;
    else
        cout << "X is not less than or equal to y." << endl;

    string result = (x!=y)? "X is not equal to Y" : "X is equal
        Y";
    cout << result << endl;

    cout << ((x == 0) && (x < y)) << endl;
    cout << ((x == 0) || (x < y)) << endl;

    return 0;
}
```

Output | Clear

```
/tmp/Gm4MeCjy7W.o
X is less than or equal to y.
X is not equal to Y
0
1


=== Code Execution Successful ===
```

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Output | Clear

```cpp
#include <iostream>
#include <cmath>
using namespace std;

int main() {
    double num1 = 25, num2 = 2, root;

    root = sqrt(num1);
    cout << "Number = " << num1 << endl;
    cout << "Square root for the value = " << root << endl;

    double result = pow(num1, num2);
    cout << "pow(" << num1 << "," << num2 << "):" << result <<
        endl;

    return 0;
}
```

```
/tmp/66Jjno7I8e.o
Number = 25
Square root for the value = 5
pow(25,2):625


=== Code Execution Successful ===
```

main.cpp

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```cpp
#include <iostream>
using namespace std;

int main() {
    double amount, remnant;
    int no_of_fifties;

    cout << "Enter RM amount as a floating-point value: ";
    cin >> amount;
    no_of_fifties = amount/50;
    remnant = ((int)(amount*100)%5000)/100.0;
    cout << "\nNumber of fifties: " << no_of_fifties << endl;
    cout << "Remnant: " << remnant << endl;
    return 0;
}
```

Output | Clear

```
/tmp/gWDXqJsiLO.o
Enter RM amount as a floating-point value: 34.5

Number of fifties: 0
Remnant: 34.5


=== Code Execution Successful ===
```

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```cpp
#include <iostream>
using namespace std;

int main() {
    double amount, remnant;
    int no_of_fifties;

    cout << "Enter RM amount as a floating-point value: ";
    cin >> amount;
    no_of_fifties = amount/50;
    remnant = ((amount*100)%5000)/100.0;
    cout << "\nNumber of fifties: " << no_of_fifties << endl;
    cout << "Remnant: " << remnant << endl;
    return 0;
}
```

Output | Clear

```
ERROR!
/tmp/OA34y9ILMX.cpp: In function 'int main()':
/tmp/OA34y9ILMX.cpp:11:28: error: invalid operands of types 'double'
    and 'int' to binary 'operator%'
   11 |     remnant = ((amount*100)%5000)/100.0;
      |                ~~~~~~~~~~~~^~~~~
      |                        |     |
      |                        |     int
      |                       double


=== Code Exited With Errors ===
```

main.cpp

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```cpp
#include <iostream>
#include <string>
using namespace std;

int main() {
    float num1, num2;
    char operation;
    cout << "Enter a number: ";
    cin >> num1;
    cout << "Enter another number: ";
    cin >> num2;
    cout << "Enter the operation to be done, either +, -, *, or
        /: ";
    cin >> operation;
    switch (operation)
    {
    case '+':
        cout << num1 << " " << operation << " " << num2 << " " <<
            "=" << " " << num1+num2;
        break;

    case '-':
```

Output | Clear

```
/tmp/lsQDT4dLlw.o
Enter a number: 1
Enter another number: 2
Enter the operation to be done, either +, -, *, or /: +
1 + 2 = 3

=== Code Execution Successful ===
```

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```
19
20      case '-':
21          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1-num2;
22          break;
23
24      case '*':
25          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1*num2;
26          break;
27
28      case '/':
29          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1/num2;
30          break;
31
32      default:
33          cout << "Error! Operator is not correct!";
34          break;
35      }
36      return 0;
37  }
```

Output | Clear

```
/tmp/lsQDT4dLlw.o
Enter a number: 1
Enter another number: 2
Enter the operation to be done, either +, -, *, or /: +
1 + 2 = 3

=== Code Execution Successful ===
```

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```
19
20      case '-':
21          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1-num2;
22          break;
23
24      case '*':
25          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1*num2;
26          break;
27
28      case '/':
29          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1/num2;
30          break;
31
32      default:
33          cout << "Error! Operator is not correct!";
34          break;
35      }
36      return 0;
37  }
```

Output | Clear

```
/tmp/beLtsTNe9N.o
Enter a number: 2
Enter another number: 2
Enter the operation to be done, either +, -, *, or /: -
2 - 2 = 0

=== Code Execution Successful ===
```

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main.cpp

Share | Run

```
19
20      case '-':
21          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1-num2;
22          break;
23
24      case '*':
25          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1*num2;
26          break;
27
28      case '/':
29          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1/num2;
30          break;
31
32      default:
33          cout << "Error! Operator is not correct!";
34          break;
35      }
36      return 0;
37  }
```

Output | Clear

```
/tmp/nZjgdTgAqc.o
Enter a number: 3
Enter another number: 4
Enter the operation to be done, either +, -, *, or /: *
3 * 4 = 12

=== Code Execution Successful ===
```

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main.cpp

Share | Run

```
19
20      case '-':
21          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1-num2;
22          break;
23
24      case '*':
25          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1*num2;
26          break;
27
28      case '/':
29          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1/num2;
30          break;
31
32      default:
33          cout << "Error! Operator is not correct!";
34          break;
35      }
36      return 0;
37  }
```

Output | Clear

```
/tmp/NfEFfUeQYm.o
Enter a number: 10
Enter another number: 5
Enter the operation to be done, either +, -, *, or /: /
10 / 5 = 2

=== Code Execution Successful ===
```

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main.cpp

Share | Run

```
19
20      case '-':
21          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1-num2;
22          break;
23
24      case '*':
25          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1*num2;
26          break;
27
28      case '/':
29          cout << num1 << " " << operation << " " << num2 << " " <<
                "=" << " " << num1/num2;
30          break;
31
32      default:
33          cout << "Error! Operator is not correct!";
34          break;
35      }
36      return 0;
37  }
```

Output | Clear

```
/tmp/4wADdlcDeP.o
Enter a number: 1
Enter another number: 2
Enter the operation to be done, either +, -, *, or /: %
Error! Operator is not correct!

=== Code Execution Successful ===
```