

Austin Johnson
0649

Assignment 2 Part 1

```
#include <iostream>

int storedValue = 0;

void store(int value)
{
    storedValue = value;
}

int retrieve()
{
    return storedValue;
}

void clear()
{
    storedValue = 0;
    std::cout << "Stored Value Cleared." << std::endl;
}

int main()
{
    int num1, num2, result;
    char operation;
    while (true)
    {
        std::cout << "Enter first number: ";
        std::cin >> num1;
        std::cout << "Enter an operator (+, -, *, /, %, q=quit, s=store, r=retrieve, c=clear): ";
        std::cin >> operation;

        if (operation == 'q')
        {
            break;
        }
    }
}
```

```
else if (operation == 'r')
{
    std::cout << "Retrieved Value: " << retrieve() << std::endl;
    continue;
}
else if (operation == 's')
{
    store(num1);
    std::cout << "Stored: " << num1 << std::endl;
    continue;
}
else if (operation == 'c')
{
    clear();
    continue;
}

std::cout << "Enter second number: ";
std::cin >> num2;

switch (operation)
{
case '+':
    result = num1 + num2;
    break;
case '-':
    result = num1 - num2;
    break;
case '*':
    result = num1 * num2;
    break;
case '/':
    result = num1 / num2;
    break;
case '%':
    result = num1 % num2;
    break;
default:
    std::cout << "Invalid operator";
    continue;
}
```

```
    }  
  
    std::cout << "Result: " << result << std::endl;  
}  
return 0;  
}
```