Course Code: CS 116 T/L

Date: 20th Nov, 2024

Programming Fundamentals

BS Software Engineering | BS Computer Science

Lab 02

Solution 01:

```cpp
//Question 01
//Solution 01
#include <iostream>
using namespace std;

int main(){

  int num1, num2;

  int sum, diff, product;
  float reminder;

  cout << "Enter Number 1: ";
  cin>> num1;

  cout << endl;

  cout << "Enter Number 2:";
  cin>> num2;

  sum = num1 + num2;
  diff = num1 - num2;
  product = num1 * num2;
  reminder = num1 % num2;

  cout << "Sum is: " << sum <<endl;
  cout << "Diff is: " << diff <<endl;
  cout << "Product is: " << product <<endl;
  cout << "Reminder is: " << reminder <<endl;
}
```

Solution 02:

```cpp
//Question 03
//Solution:

#include <iostream>

using namespace std;

int main(){

    int num1, num2, num3;

    cout << "Enter Number 1: " ;
    cin>>num1;

    cout<<endl;

    cout << "Enter Number 2: " ;
    cin>>num2;

    cout<<endl;

    cout << "Enter Number 3: " ;
    cin>>num3;

    bool AllPositiveNumber = (num1 > 0 && num2 > 0 && num3 > 0);
    bool any20above = (num1 > 20 || num2 > 20 || num3 > 20);

    cout << boolalpha; // enable true and false for print.

    cout << "All are Postive Numbers: " << AllPositiveNumber << endl;
    cout << "At least One Number is Greater than 20: " << any20above << endl;
    cout << "Negation of all positive numbers: " << !AllPositiveNumber;
}
```