

CS261 LAB7

Team members:

Section:2B

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TASK 1: Write A Program in C++ to concatenate two strings using Operator Overloading.

Solution Code:

```
#include <iostream>
#include <string.h>

using namespace std;

class concat {
public:
    char s1[25], s2[25];
    concat(char str1[], char str2[])
    {
        strcpy(this->s1, str1);
        strcpy(this->s2, str2);
    }
    void operator+()
    {
        cout << strcat(s1, s2);
    }
};

int main()
{
    char str1[] = "This is a ";
    char str2[] = "medical school";
    concat add(str1, str2);
```

```
+add;
return 0;
}
```

OUTPUT:

```
PS D:\C++> cd "d:\C++\" ; if ($?) { g++ opold.cpp -o opold } ; if ($?) { .\opold }
This is a medical school
PS D:\C++>
```

TASK 2: Write A Program in C++ for addition of two numbers using Operator Overloading.

```
#include <iostream>
#include <sstream>
#include <cmath>
using namespace std;
class Number {
private:
    int n;
public:
    Number(){
        n = 0;
    }
    Number(int input){
        n = input;
    }
    Number operator+(Number num1){
        Number num;
        num = n + num1.n;
        return num;
    }
}
```

```
void print(){
    cout << n;
}
};
int main(){
    int x;
    cin >> x;
    int y;
    cin >> y;
    Number num1(x), num2(y);
    Number num = num1 + num2;
    num.print();
}
```

OUTPUT:

```
PS D:\C++> cd "d:\C++\" ; if ($?) { g++ raddopold.cpp -o raddopold } ; if ($?) { .\raddopold }
4 5
9
PS D:\C++> █
```