OOP with C++

Lab work - 03

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Semester - 4th

GitHub - https://github.com/rishabh-live/oop-w-cpp-4-sem/tree/main/Labs

1) Write a C++ Program to illustrate function with default arguments

Source Code

```
#include <iostream>
using namespace std;
class Illustrate{
    public:
        void ReturnVal(string text = "Default Text", int val = 0 ){
            cout << "\nText State : " << text << "\nInterger value : " <<</pre>
val << "\n";</pre>
};
int main(){
    Illustrate theObject;
    cout << "\nWith Default Values. \n";</pre>
    theObject.ReturnVal();
    cout << "\nWith Updated Values. \n";</pre>
    theObject.ReturnVal("New Words", 89);
    return ⊙;
}
```

```
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With Default Values,

Text State: Default Text
Interger value: 0

With Updated Values,

Text State: New Words
Interger value: 89

Process returned 0 (0x0) execution time: 0,003 s

Press ENTER to continue,
```

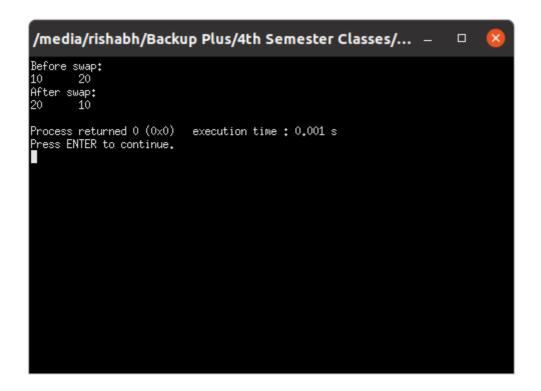
2) Write a C++ Program to illustrate function with default arguments

Source Code

```
#include <iostream>
using namespace std;
class Illustrate{
    public:
        void swapNums(int &x, int &y) {
              int z = x;
              x = y;
              y = z;
}
};
int main(){
    Illustrate theObject;
    int firstNum = 10;
    int secondNum = 20;
    cout << "Before swap: " << "\n";</pre>
    cout << firstNum << "\t" << secondNum << "\n";</pre>
    theObject.swapNums(firstNum, secondNum);
    cout << "After swap: " << "\n";</pre>
```

```
cout << firstNum << "\t" << secondNum << "\n";
return 0;
}</pre>
```

Output



3) Write a C++ Program to Illustrate function overloading

Source Code

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

class Illustrate{
   public:
        int plusFunc(int x, int y) {
            return x + y;
        }

        double plusFunc(double x, double y) {
            return x + y;
        }
};
```

```
int main(){

    Illustrate theObject;
    int myNum1 = theObject.plusFunc(8, 5);
    double myNum2 = theObject.plusFunc(4.3, 6.26);
    cout << "Int: " << myNum1 << "\n";
    cout << "Double: " << myNum2;

    return 0;
}</pre>
```

Output

```
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Int: 13

Bouble: 10.56

Process returned 0 (0x0) execution time: 0.002 s

Press ENTER to continue.
```