

# Object Oriented Programming (Assignment Solutions)

## Question 1:

//Only overloaded Operator function is given, rest is already covered in Lecture.

```
Complex operator - (Complex &obj) {
   int resReal = this->real - obj.real;
   int resImg = this->img - obj.img;
   Complex res(resReal, resImg);
   return res;
}
```

### Question 2:

```
class BankAccount {
      double balance;
      void deposit(double amount) {
           if(amount <= balance) {</pre>
      double getBalance() {
```



```
return balance;
}

int main() {
    BankAccount myAccount(123456, 500.0);
    myAccount.deposit(150.0);
    myAccount.withdraw(100.0);
    cout << "Current Balance: Rs." << myAccount.getBalance() << endl;
    return 0;
}</pre>
```

### Question 3:

```
protected:
public:
};
class Student : public Person {
private:
public:
           cout << "studentId : " << this->studentID << endl;</pre>
};
```



```
int main() {
   Student student("Alice", 20, "S12345");
   student.displayStudentInfo();
   return 0;
}
```

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