Báo cáo thực hành

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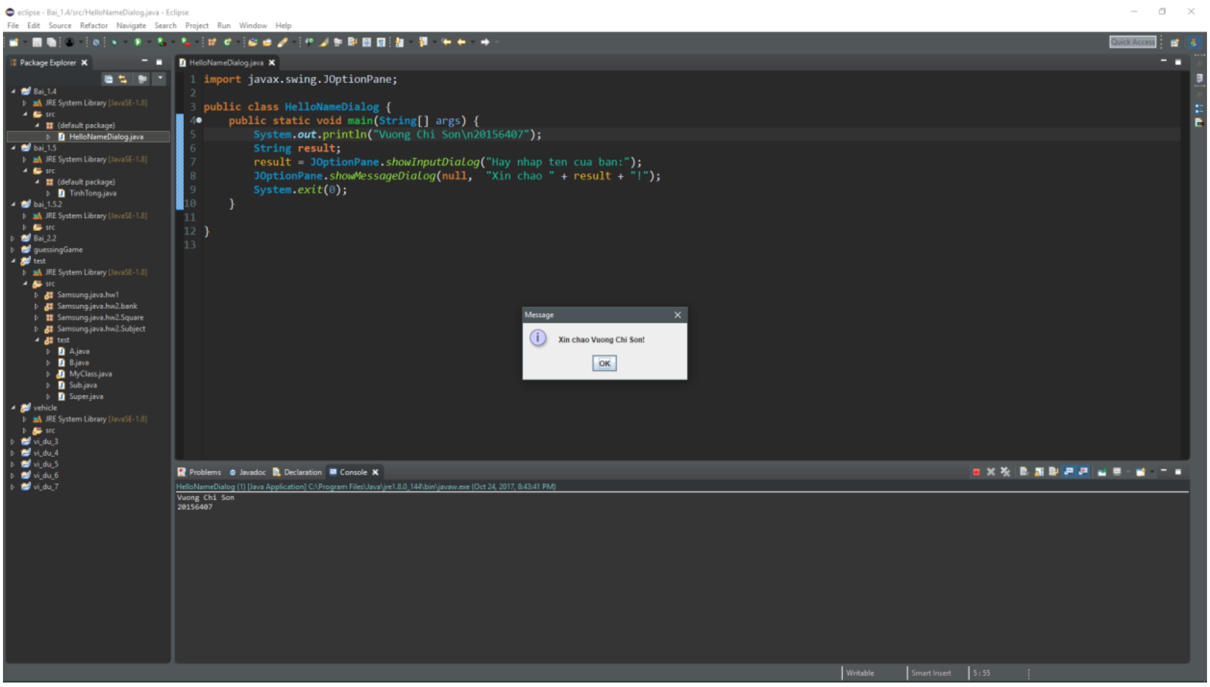
MSSV: 20156407

Lớp: CN CNTT 3 – K60

Bài 1.4

1.

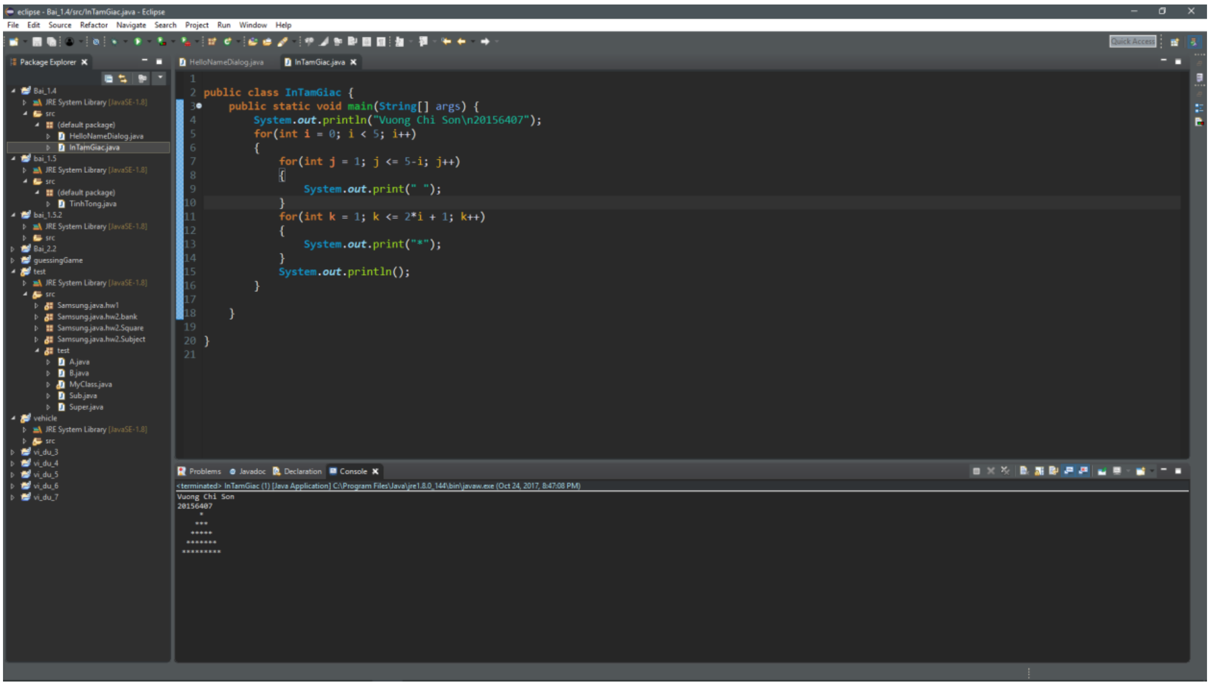
```
import javax.swing.JOptionPane;
public class HelloNameDialog {

	public static void main(String[] args) {
		System.out.println("Vuong Chi Son\n20156407");
		String result;
		result = JOptionPane.showInputDialog("Hay nhap ten cua ban:");
		JOptionPane.showMessageDialog(null,  "Xin chao " + result +
"!");
		System.exit(0);
	}
}
```



2.

```
public class InTamGiac {

	public static void main(String[] args) {
		System.out.println("Vuong Chi Son\n20156407");
		for(int i = 0; i < 5; i++)
		{
			for(int j = 1; j <= 5-i; j++)
```

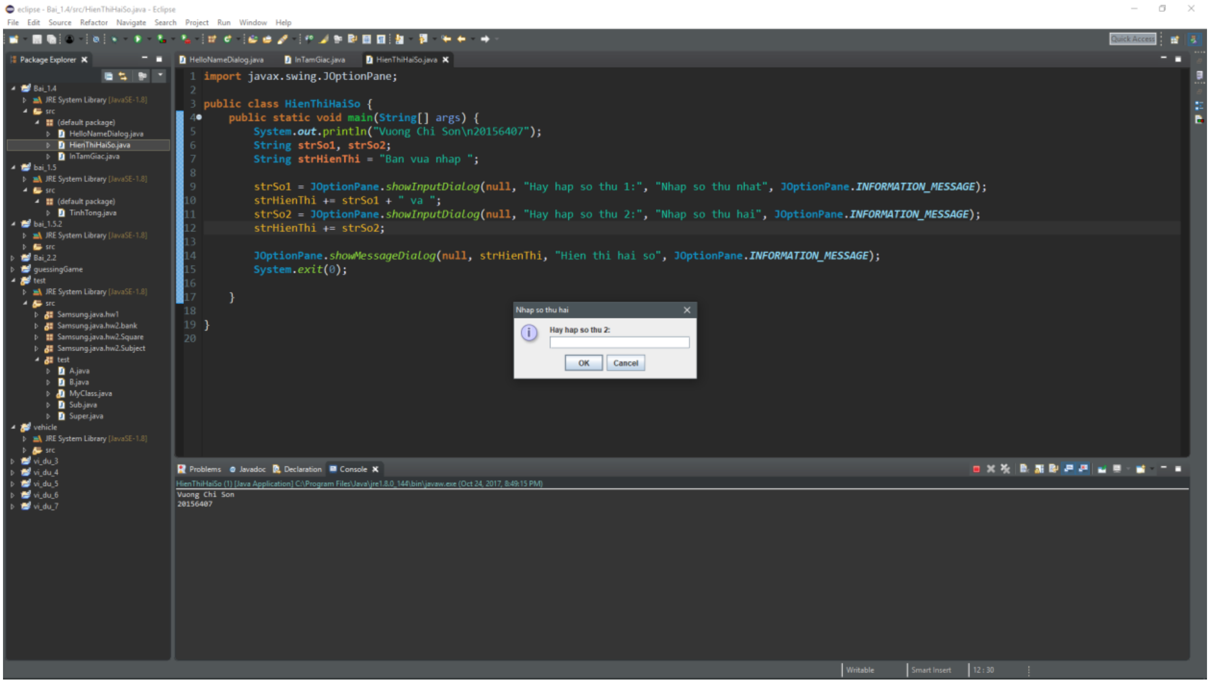
```
                        {
                                System.out.print(" ");
                        }
                        for(int k = 1; k <= 2*i + 1; k++)
                        {
                                System.out.print("*");
                        }
                        System.out.println();
                }

        }

}
```



3.

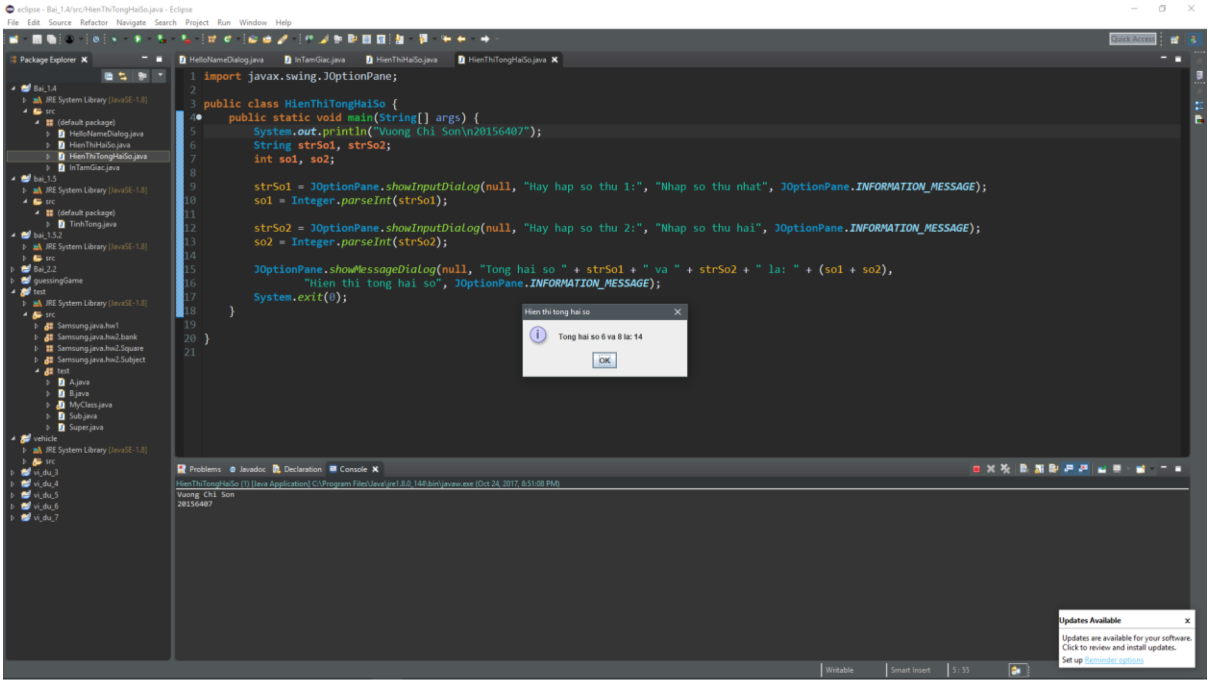
```
import javax.swing.JOptionPane;
public class HienThiHaiSo {

        public static void main(String[] args) {
                System.out.println("Vuong Chi Son\n20156407");
                String strSo1, strSo2;
                String strHienThi = "Ban vua nhap ";

                strSo1 = JOptionPane.showInputDialog(null, "Hay hap so thu 
1:", "Nhap so thu nhat", JOptionPane.INFORMATION_MESSAGE);
                strHienThi += strSo1 + " va ";
                strSo2 = JOptionPane.showInputDialog(null, "Hay hap so thu 
2:", "Nhap so thu hai", JOptionPane.INFORMATION_MESSAGE);
                strHienThi += strSo2;
```

```
        JOptionPane.showMessageDialog(null, strHienThi, "Hien thi hai 
so", JOptionPane.INFORMATION_MESSAGE);
        System.exit(0);

    }

}
```



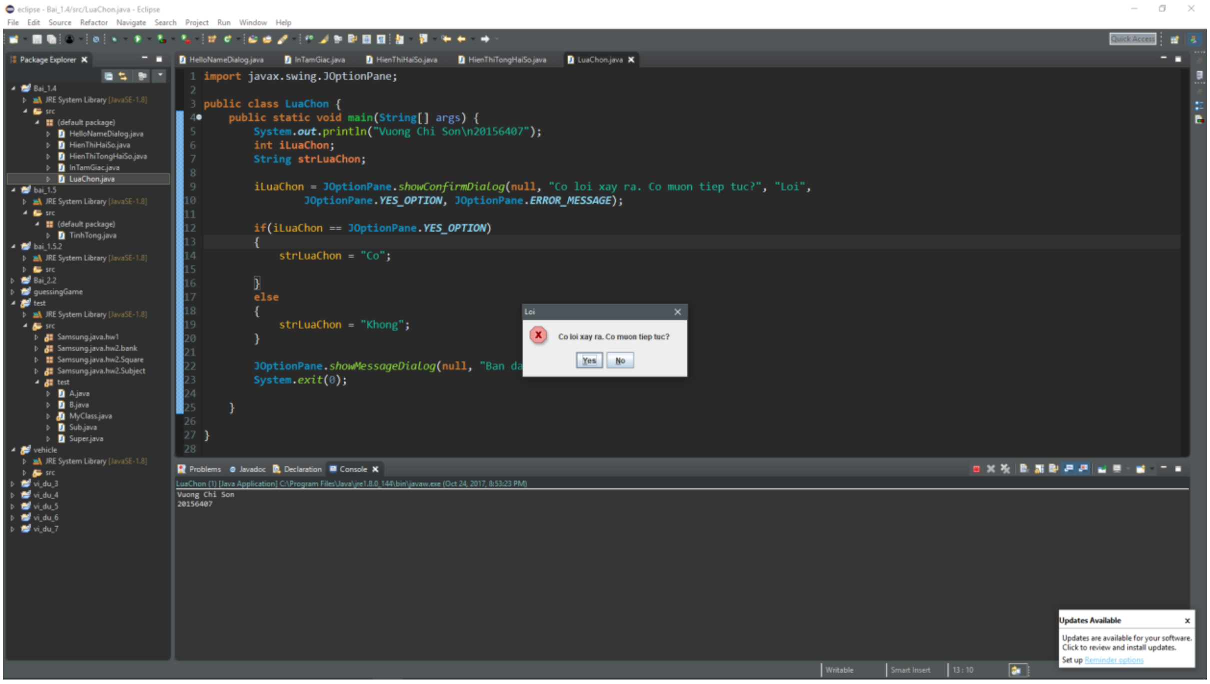
4.

```
import javax.swing.JOptionPane;
public class HienThiTongHaiSo {

    public static void main(String[] args) {
        String strSo1, strSo2;
        int so1, so2;

        strSo1 = JOptionPane.showInputDialog(null, "Hay hap so thu 
1:", "Nhap so thu nhat", JOptionPane.INFORMATION_MESSAGE);
        so1 = Integer.parseInt(strSo1);

        strSo2 = JOptionPane.showInputDialog(null, "Hay hap so thu 
2:", "Nhap so thu hai", JOptionPane.INFORMATION_MESSAGE);
        so2 = Integer.parseInt(strSo2);

        JOptionPane.showMessageDialog(null, "Tong hai so " + strSo1 + 
" va " + strSo2 + " la: " + (so1 + so2),
                "Hien thi tong hai so", 
JOptionPane.INFORMATION_MESSAGE);
        System.exit(0);
    }

}
```



5.

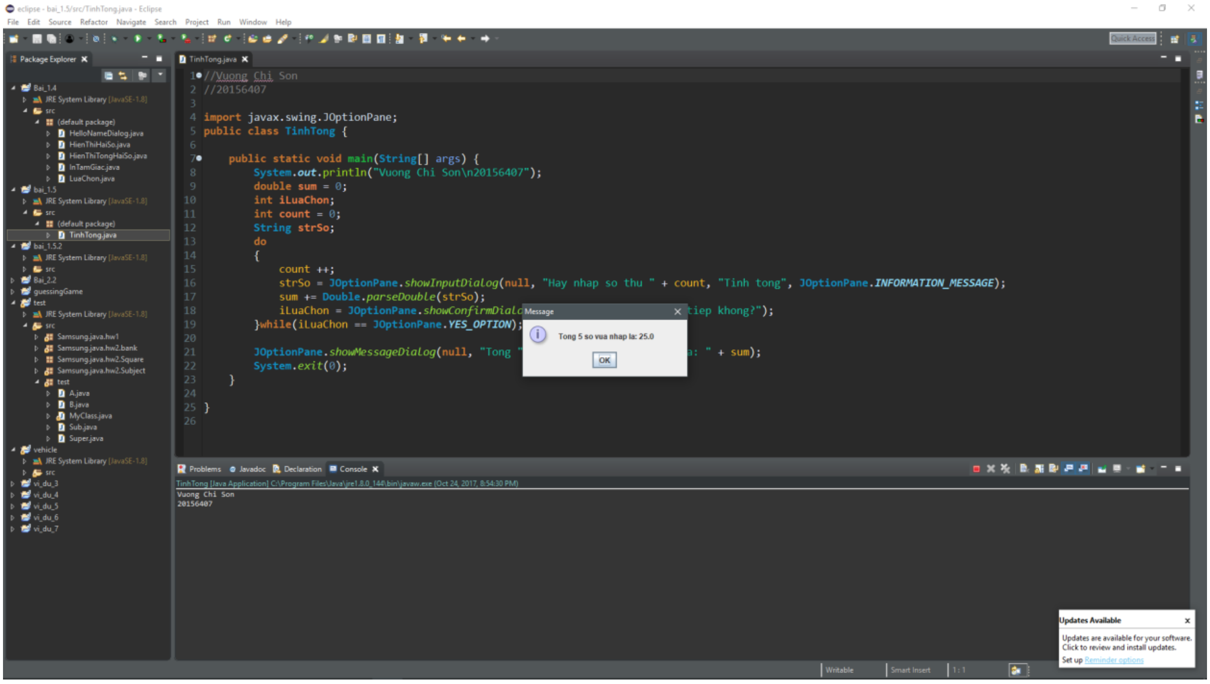
```
import javax.swing.JOptionPane;

public class LuaChon {

	public static void main(String[] args) {
		System.out.println("Vuong Chi Son\n20156407");
		int iLuaChon;
		String strLuaChon;

		iLuaChon = JOptionPane.showConfirmDialog(null, "Co loi xay ra. Co muon tiep tuc?", "Loi",
				JOptionPane.YES_OPTION, JOptionPane.ERROR_MESSAGE);

		if(iLuaChon == JOptionPane.YES_OPTION)
		{
			strLuaChon = "Co";

		}
		else
		{
			strLuaChon = "Khong";
		}

		JOptionPane.showMessageDialog(null, "Ban da chon " + strLuaChon);
		System.exit(0);

	}

}
```



Bài 1.5

1.

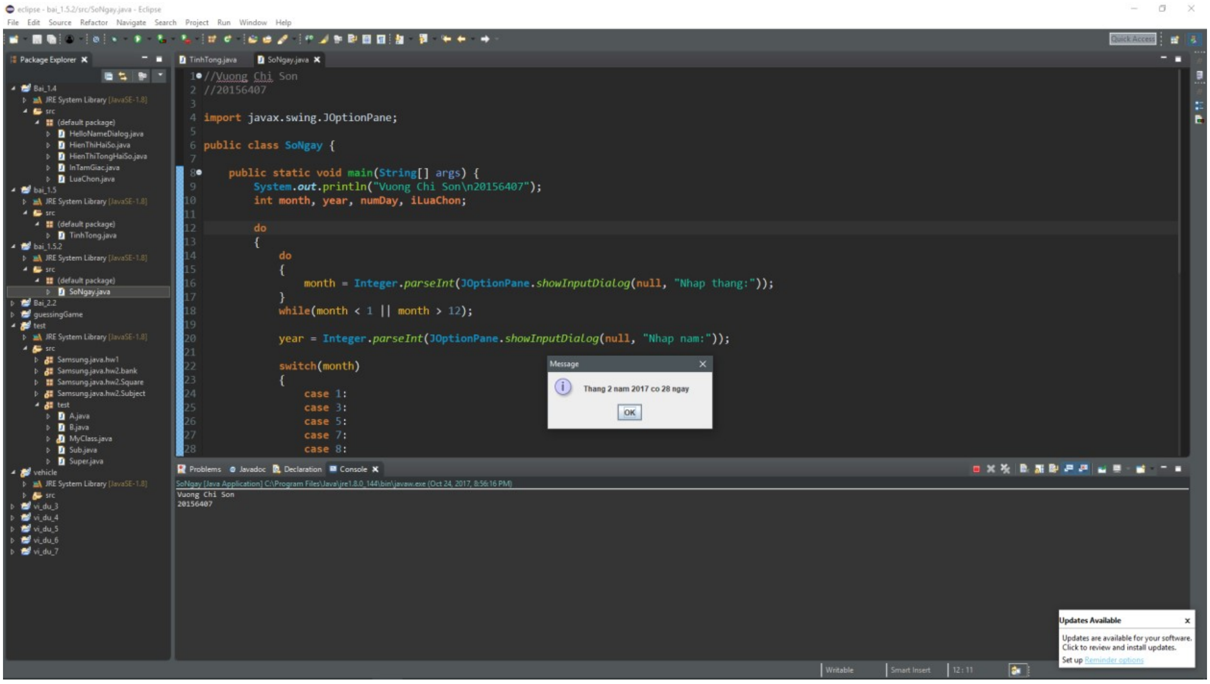
```
import javax.swing.JOptionPane;
public class TinhTong {

	public static void main(String[] args) {
		double sum = 0;
		int iLuaChon;
		int count = 0;
		String strSo;
		do
		{
			count ++;
			strSo = JOptionPane.showInputDialog(null, "Hay nhap so 
thu " + count, "Tinh tong", JOptionPane.INFORMATION_MESSAGE);
			sum += Double.parseDouble(strSo);
			iLuaChon = JOptionPane.showConfirmDialog(null, "Ban co 
muon nhap tiep khong?");
		}while(iLuaChon == JOptionPane.YES_OPTION);
		
		JOptionPane.showMessageDialog(null, "Tong " + count + " so vua 
nhap la: " + sum);
		System.exit(0);
	}

}
```


eclipse - bai_1.5/src/TinhTong.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
TinhTong.java
//Vuong Chi Son
//20156407
import javax.swing.JOptionPane;
public class TinhTong {
public static void main(String[] args) {
System.out.println("Vuong Chi Son\n20156407");
double sum = 0;
int iLuaChon;
int count = 0;
String strSo;
do
{
count ++;
strSo = JOptionPane.showInputDialog(null, "Hay nhap so thu " + count, "Tinh tong", JOptionPane.INFORMATION_MESSAGE);
sum += Double.parseDouble(strSo);
iLuaChon = JOptionPane.showConfirmDialo
tiep khong?");
}while(iLuaChon == JOptionPane.YES_OPTION);
JOptionPane.showMessageDialog(null, "Tong "
a: " + sum);
System.exit(0);
}
}
Message
Tong 5 so vua nhap la: 25.0
OK
Problems Javadoc Declaration Console
Vuong Chi Son
20156407
Updates Available
Updates are available for your software.
Click to review and install updates.
Writable
Smart Insert
1 : 1

2.

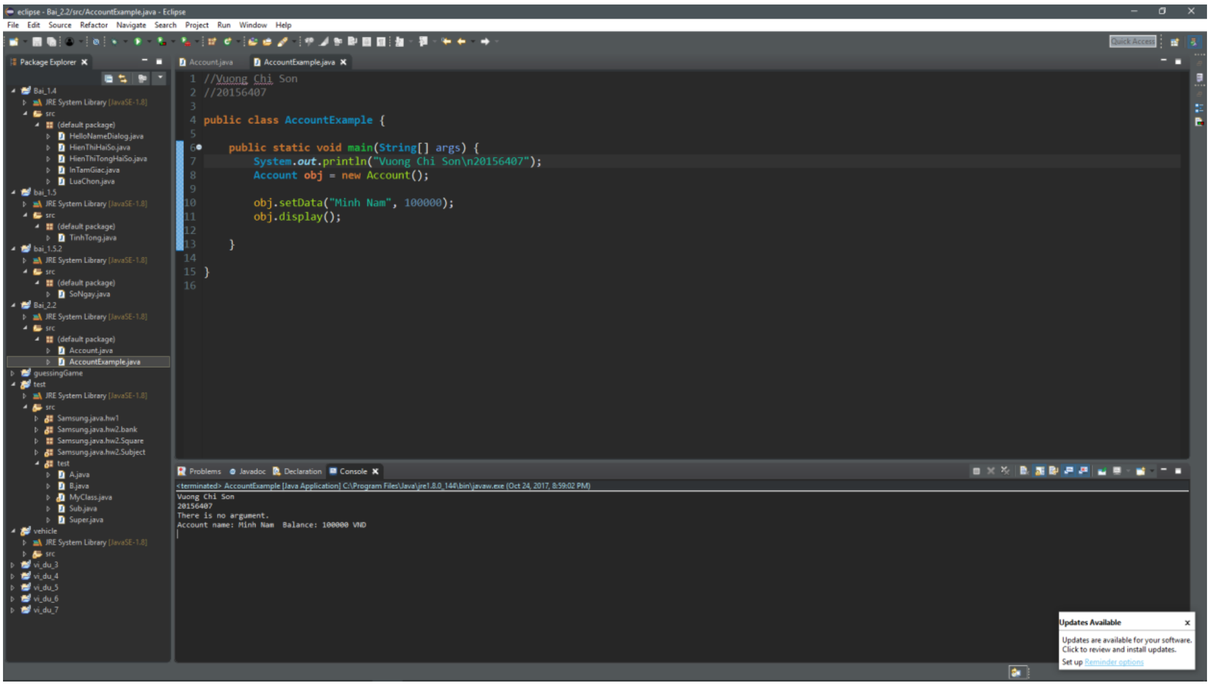
```
import javax.swing.JOptionPane;

public class SoNgay {

	public static void main(String[] args) {
		System.out.println("Vuong Chi Son\n20156407");
		int month, year, numDay, iLuaChon;

		do
		{
			do
			{
				month = 
Integer.parseInt(JOptionPane.showInputDialog(null, "Nhap thang:"));
			}
			while(month < 1 || month > 12);

			year = 
Integer.parseInt(JOptionPane.showInputDialog(null, "Nhap nam:"));

			switch(month)
			{
				case 1:
				case 3:
				case 5:
				case 7:
				case 8:
				case 10:
				case 12:
					numDay = 31;
					break;
				case 2:
					if (year % 400 == 0 || (year % 4 == 0  && 
year % 100 != 0))
						numDay = 29;
					else
						numDay = 28;
					break;
				default:
					numDay = 30;
			}

			JOptionPane.showMessageDialog(null, "Thang " + month + " 
nam " + year + " co " + numDay + " ngay");

			iLuaChon = JOptionPane.showConfirmDialog(null, "Ban co 
muon thu lai khong?", "Tinh tong", JOptionPane.INFORMATION_MESSAGE);
		}
		while(iLuaChon == JOptionPane.YES_OPTION);
		System.exit(0);
	}
```

```
}
```



Bài 2.1

```java
public class Account {
	String name;
	int balance;

	void setData(String pName, int pBalance)
	{
		name = pName;
		balance = pBalance;
	}

	void display()
	{
		System.out.println("There is no argument. ");
		System.out.print("Account name: " + name);
		System.out.println("\tBalance: " + balance + " VND");
	}
}

public class AccountExample {

	public static void main(String[] args) {
		System.out.println("Vuong Chi Son\n20156407");
		Account obj = new Account();

		obj.setData("Minh Nam", 100000);
		obj.display();

	}
}
```



Bài 2.2

```
void deposit(long money)
{
	balance += money;
}

boolean withdrawMoney(long money)
{
	if(balance >= money)
		{
			balance -= money;
			return true;
		}
	else
		return false;
}
```

Bài 2.3

```
public Account()
{
	name = "Unsigned";
	balance = 0;
}
public Account(String pname, int pbalance) {
	name = pname;
	balance = pbalance;
}
```

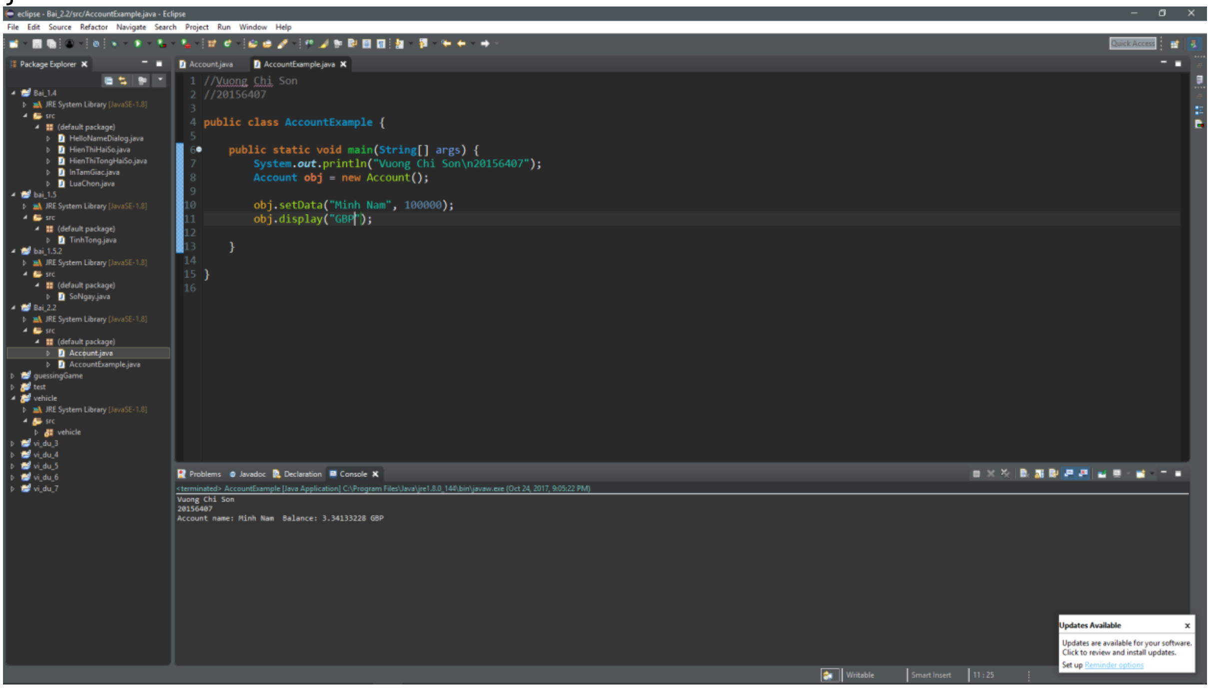
Bài 2.4

```java
public class Account {
	private String name;
	private int balance;

	public Account()
	{
		name = "Unsigned";
		balance = 0;
	}
	public Account(String pname, int pbalance) {
		name = pname;
		balance = pbalance;
	}

	public void setData(String pName, int pBalance)
	{
		name = pName;
		balance = pBalance;
	}

	public String getName()
	{
		return name;
	}

	public int getBalance()
	{
		return balance;
	}

	public void display()
	{
		System.out.println("There is no argument. ");
		System.out.print("Account name:  " + name);
		System.out.println("\tBalance:  " + balance + "  VND");
	}

	public void deposit(long money)
	{
		balance += money;
	}

	public boolean withdrawMoney(long money)
	{
		if(balance >= money)
			{
				balance -= money;
				return true;
			}
		else
			return false;
```

```
        }
}
```

Bài 2.5

```
        public void display(String currency)
        {
                final double rateVNDtoGBP = 3.34133228E-5;
                if (currency.equals("VND"))
                        this.display();
                if (currency.endsWith("GBP"))
                {
                        System.out.print("Account name: " + name);
                        System.out.println("\tBalance: " + balance *
rateVNDtoGBP + " GBP");
                }
        }
```



Bài 2.6, 2.7

//Vuong Chi Son

//20156407

package vehicle;

public class Vehicle {

    private float velocity;

```java
private float turnSpeed;
private float x, y;
private float angle;
private float acceleration;
private int time;

public Vehicle() {
   this.x = 0;
   this.y = 0;
   this.velocity = 0;
   this.turnSpeed = 0;
   this.angle = 0;
   this.acceleration = 0;
   this.time = 1;
}

public Vehicle(float velocity, float turnSpeed, float acceleration)
{
   this.x = 0;
   this.y = 0;
   this.angle = 90;
   this.velocity = velocity;
   this.turnSpeed = turnSpeed;
   this.acceleration = acceleration;
   this.time = 1;
}


public float getAcceleration() {
   return acceleration;
}
```

```java
public void setAcceleration(float acceleration) {
    this.acceleration = acceleration;
}

public float getVelocity() {
    return velocity;
}

public void setVelocity(float velocity) {
    this.velocity = velocity;
}

public float getTurnSpeed() {
    return turnSpeed;
}

public void setTurnSpeed(float turnSpeed) {
    this.turnSpeed = turnSpeed;
}

public float getX() {
    return x;
}

public void setX(float x) {
    this.x = x;
}

public float getY() {
    return y;
```

```java
}

public void setY(float y) {
    this.y = y;
}

public float getAngle() {
    return angle;
}

public void setAngle(float angle) {
    this.angle = angle;
}

public void ahead(double distance) {
    float v0 = 0;
    if(x == 0f && y == 0f)
        System.out.println("Xe bat dau chuyen dong.");
    while ( (v0 < velocity) && (distance > 0) )
    {
        double t = (v0 + acceleration / 2.0);
        distance -= t;
        x += (float) t * Math.sin(angle);
        y += (float) t * Math.cos(angle);
        v0 += acceleration;
        display();
        time++;
    }
    if (distance > 0)
    {
        x += (float) distance * Math.sin(angle);
```

```java
            y += (float) distance * Math.cos(angle);
            display();
            time++;
        }
    }

    public void turnLeft(double degree) {
        angle += degree;
        if(x == 0 && y == 0)
        {
            System.out.printf("Giay %d:\nXe chua chuyen dong\nToa do: (%f, %f)\nGoc: %f do\n", time,
x, y, angle);
            time++;
            return;
        }
        x += (float) turnSpeed * Math.sin(Math.toRadians(angle));
        y += (float) turnSpeed * Math.cos(Math.toRadians(angle));
        display();
    }

    public void turnRight(double degree)
    {
        angle -= degree;
        if(x == 0 && y == 0)
        {
            System.out.printf("Giay %d:\nXe chua chuyen dong\nToa do: (%f, %f)\nGoc: %f do\n", time,
x, y, angle);
            time++;
            return;
        }
        x += (float) turnSpeed * Math.sin(Math.toRadians(angle));
        y += (float) turnSpeed * Math.cos(Math.toRadians(angle));
```

```
        display();
    }

    public void display()
    {
        System.out.printf("Giay: %d\nToa do: (%f, %f)\nGoc: %f do\n", time, x, y, angle);
    }
}
```