**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ**
**НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ "ЛЬВІВСЬКА ПОЛІТЕХНІКА"**

**Кафедра систем штучного інтелекту**

# Лабораторна робота №10
з дисципліни
«Об'єктно-орієнтоване програмування»

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# Код програми:

1)

```java
import java.io.*;
public class Career implements Serializable{
    public String Date;
    public String Viddil;
    public String Position;

    public void setDate(String Date) {
        this.Date = Date;
    }

    public String getDate() {
        return Date;
    }

    public void setViddil(String Viddil) {
        this.Viddil = Viddil;
    }

    public String getViddil() {
        return Viddil;
    }

    public void setPosition(String Position) {
        this.Position = Position;
    }

    public String getPosition() {
        return Position;
    }
}
```

2)

```java
import java.io.*;
public class Characteristics implements Serializable{
    private String Ability;
    private int Point;

    public void setAbility(String Ability) {
        this.Ability = Ability;
    }

    public String getAbility() {
        return Ability;
    }

    public void setPoint(int Point) {
        this.Point = Point;
    }

    public int getPoint() {
        return Point;
    }
}
```

```
}

3)

import java.io.*;

public class Execution {

    public static void main(String[] args) throws Exception {
        SerializeClass worker = new SerializeClass();
        worker.setEducation("Lviv Politecnic");
        worker.setPassport("MyPassport");
        worker.setPrice(10000);
        worker.career.setDate("14.05.2018");
        worker.career.setPosition("CEO");
        worker.career.setViddil("Microsoft Corporation");
        worker.characteristics.setAbility("DataBase and Java Working");
        worker.characteristics.setPoint(10);
        System.out.println(worker.getEducation());
        System.out.println(worker.getPassport());
        System.out.println(worker.getPrice());
        System.out.println(worker.career.getDate());
        System.out.println(worker.career.getPosition());
        System.out.println(worker.career.getViddil());
        System.out.println(worker.characteristics.getAbility());
        System.out.println(worker.characteristics.getPoint());

        FileOutputStream fileoutputstream = new FileOutputStream("Saved.txt");
        ObjectOutputStream objectoutputstream = new
ObjectOutputStream(fileoutputstream);
        objectoutputstream.writeObject(worker);
        objectoutputstream.close();

        FileInputStream fileinputstream = new FileInputStream("Saved.txt");
        ObjectInputStream objectinputstream = new
ObjectInputStream(fileinputstream);
        SerializeClass newWorker = (SerializeClass)
objectinputstream.readObject();
        objectinputstream.close();


        System.out.println(newWorker.getEducation());
        System.out.println(newWorker.getPassport());
        System.out.println(newWorker.getPrice());
        System.out.println(newWorker.career.getDate());
        System.out.println(newWorker.career.getPosition());
        System.out.println(newWorker.career.getViddil());
        System.out.println(newWorker.characteristics.getAbility());
        System.out.println(newWorker.characteristics.getPoint());



    }

}
```

4)

```java
import java.io.*;

public class SerializeClass implements Serializable{
        private String Passport;
        private String Education;
        private double Price;

        Career career = new Career();
        Characteristics characteristics = new Characteristics();


        public void setPassport(String Passport) {
                this.Passport = Passport;
        }

        public String getPassport() {
                return Passport;
        }

        public void setEducation(String Education) {
                this.Education = Education;
        }

        public String getEducation() {
                return Education;
        }

        public void setPrice(double Price) {
                this.Price = Price;
        }

        public double getPrice() {
                return Price;
        }
}
```
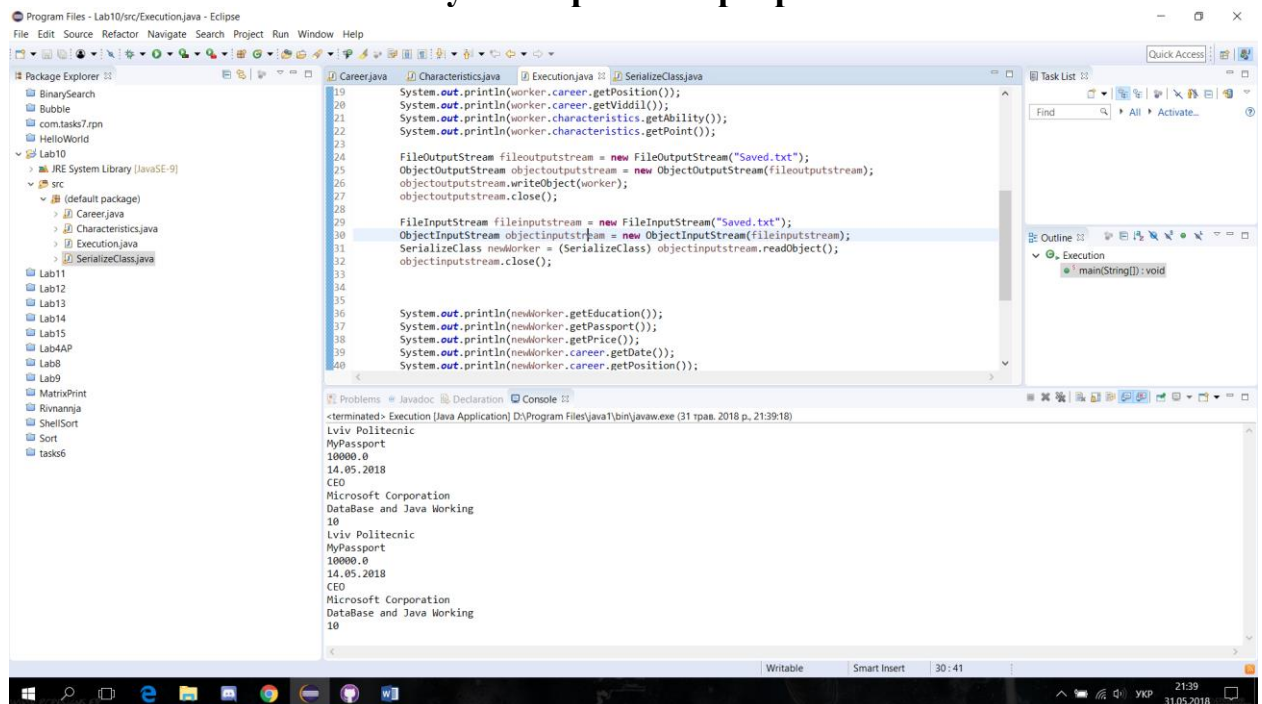
# Результат роботи програми:



Рис.1 Результат роботи програми