

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТУ “ЛЬВІВСЬКА ПОЛІТЕХНІКА”  
Кафедра систем штучного інтелекту



## Лабораторна робота № 12

з дисципліни

«Об’єктно-орієнтоване програмування»

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## Main.java

```
import
java.util.Scanner;
```

```
public class Main{
    public static void main(String [] args){
        Scanner in = new Scanner(System.in);
        System.out.println("How many stations would you like to add ? - ");
        byte blank = (byte) in.nextInt();

        for (int a = 0; a < blank; a++) {

            System.out.println("Enter your station");

            String st = in.next();
            TicketOffice reg = new TicketOffice();
            while (!reg.station(st)){
                System.out.println("Incorrect input. Enter your station
correctly");
                st = in.next();
            }
            System.out.println("Enter arrival");
            String arrival = in.next();
            while(!reg.arrival(arrival)){
                System.out.println("Incorrect input. Enter your arrival time
correctly(4 symbols: e. g. 12.04)");
                arrival = in.next();
            }
            System.out.println("Enter departure");
            String dep = in.next();
            while(!reg.departure(dep)){
                System.out.println("Incorrect input. Enter your arrival time
correctly(4 symbols: e. g. 12.04)");
                dep = in.next();
            }
            System.out.println("Enter free seats");
            String fseats = in.next();
            while(!reg.fseats(fseats)){
                System.out.println("Incorrect input. Enter 1 digit");
                fseats = in.next();
            }
        }
    }
}
```

```

        System.out.println("Enter a day");
        String day = in.next();

        while (!reg.day(day)){
            System.out.println("Incorrect input. Enter the day
correctly");
            day = in.next();
        }

        System.out.println("Enter train number");
        String numb = in.next();
        while(!reg.trainNb(numb)){
            System.out.println("Incorrect input. Enter the train number
- 5 symbols: letters and numbers");
            numb = in.next();
        }

    }
}
}

```

## TicketOffice.java

```

public class
TicketOffice
{
    public boolean station(String station) {
        String idPattern = "[a-zA-Z]+";
        if (station.matches(idPattern))
            return true;
        return false;
    }

    public boolean arrival(String arrival) {
        String typePattern = "\\d{2}\\.\\"d{2}";
        if (arrival.matches(typePattern))
            return true;
        return false;
    }
}

```

```

public boolean departure(String dep) {
    String typePattern = "\\d{2}\\.\\d{2}";
    if (dep.matches(typePattern)) {
        return true;
    }
    return false;
}

public boolean fseats(String character) {
    String reasonPattern = "\\d";
    if (character.matches(reasonPattern))
        return true;
    return false;
}

public boolean trainNb(String salary) {
    String reasonPattern = "[A-Z\\d]{5}";
    if (salary.matches(reasonPattern))
        return true;
    return false;
}

public boolean day(String day) {
    String idPattern = "[a-zA-Z]+";
    if (day.matches(idPattern))
        return true;
    return false;
}
}

```