

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ “ЛЬВІВСЬКА ПОЛІТЕХНІКА”**

Кафедра систем штучного інтелекту

Лабораторна робота №12
з дисципліни
«ООП»

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Завдання

Регулярні вирази. Перевірка даних. Обробка тексту.

Код програми

```
package com.pylyp.lpnu.lab12;

import java.util.Scanner;

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

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

            System.out.println("Enter name of your product");

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

            System.out.println("Enter information");
            String day = in.next();
        }
    }
}
```

```

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

        System.out.println("Enter code");
        String numb = in.next();
        while(!reg.trainNb(numb)){
            System.out.println("Incorrect input. Enter 5
numbers");
            numb = in.next();
        }
    }
}

```

```

package com.pylyp.lpnu.lab12;

public class Shop {
    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;
    }
}

```

Робота програми

```

How many products would you like to add ? -
1
Enter name of your product
chocolate
Enter date
12.05
Enter time
15.54
Enter amount
7
Enter information
good
Enter code
34765

```