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GL02, Semestr 8

Laboratorium 5 – Swift

Programowanie mobilne

Zadanie 2. Deklarowanie zmiennych i interpolacja ciągu tekstowego

```
38  import Foundation
39
40  //z2
41  var points = 5.0;
42  print("Student has \(points) points");
```

```
Student has 5.0 points
```

Zadanie 3. Wyrażenie warunkowe.

```
44  //z3
45  var points = 5.0;
46  var satisfactionLevel = round(pow(Double.random(in:0...1), (110 - points) / 100) * 20)
47  var auraColor:String
48  switch satisfactionLevel {
49  case 0...5:
50      auraColor = "red"
51  case 6...10:
52      auraColor = "orange"
53  case 11...15:
54      auraColor = "purple"
55  case 16...20:
56      auraColor = "green"
57  default:
58      auraColor = ""
59  }
60
61  print(auraColor)
62
```

```
red
```

Zadanie 4 Klasy.

```swift
//z4
class Student{
    var firstName:String
    var lastName:String
    var points:Double
    init(firstName:String,lastName:String,points:Double){
        self.firstName = firstName
        self.lastName = lastName
        self.points = points
    }
}
```

Zadanie 5. Enkapsulacja i metody klasowe.

```swift
import Foundation

//z5
class Student{
    private var name:String
    private var lastName:String
    private var points:Double
    init(name:String,lastName:String,points:Double){
        self.name = name
        self.lastName = lastName
        self.points = points
    }
    func printS(){
        print("\(name) -  \(lastName) - \(points)")
    }

    internal func showStudent(){
    var satisfactionLevel = round(pow(Double.random(in:0...1), (110 - points) / 100) * 20)
        var auraColor:String
        switch satisfactionLevel {
            case 0...5:
            auraColor = "red"
            case 6...10:
                auraColor = "orange"
            case 11...15:
                auraColor = "purple"
            case 16...20:
                auraColor = "green"
            default:
                auraColor = ""
        }
        print("\(name) has a \(auraColor) face color")
    }
}

let student = Student(name:"Mateusz",lastName:"Klos",points:2)
student.showStudent()
```

```
Mateusz has a purple face color
```

Zadanie 6. Dziedziczenie.

```swift
import Foundation

//z6
class Person{
    var name:String
    var lastName:String
    init(name:String,lastName:String){
        self.name = name
        self.lastName = lastName
    }
}

class Student:Person{
    var points:Double
    init(name:String,lastName:String,points:Double){
        self.points = points
        super.init(name: name, lastName: lastName)
    }
    func printS(){
        print("\(name) -  \(lastName) - \(points)")
    }

    internal func showStudent(){
    var satisfactionLevel = round(pow(Double.random(in:0...1), (110 - points) / 100) * 20)
        var auraColor:String
        switch satisfactionLevel {
            case 0...5:
            auraColor = "red"
            case 6...10:
                auraColor = "orange"
            case 11...15:
                auraColor = "purple"
            case 16...20:
                auraColor = "green"
            default:
                auraColor = ""
        }
        print("\(name) has a \(auraColor) face color")
    }
}
let student = Student(name:"Mateusz",lastName:"Klos",points:2)
student.showStudent()
```

```
Mateusz has a red face color
```