

# Laboratorium 5 – Swift

Programowanie mobilne

## Zadanie 2. Deklarowanie zmiennych i interpolacja ciągu tekstowego

---

```
1  import Foundation
2
3  //z2
4  var points = 2.0;
5  print("Student has \(points) points");
```

## Zadanie 3. Wyrażenie warunkowe.

---

```
26  //z3
27  var points = 2.0;
28  var satisfactionLevel = round(pow(Double.random(in:0...1), (110 - points) / 100) * 20)
29  var auraColor:String
30  switch satisfactionLevel {
31  case 0...5:
32  |   auraColor = "red"
33  case 6...10:
34  |   auraColor = "orange"
35  case 11...15:
36  |   auraColor = "purple"
37  case 16...20:
38  |   auraColor = "green"
39  default:
40  |   auraColor = ""
41  }
42  print(auraColor)
```

purple

## Zadanie 4 Klasy.

---

```
25 //z4
26 class Student{
27     var firstName:String
28     var lastName:String
29     var points:Double
30     init(firstName:String,lastName:String,points:Double){
31         self.firstName = firstName
32         self.lastName = lastName
33         self.points = points
34     }
35     func printS(){
36         print("\(firstName) - \(lastName) - \(points)")
37     }
38 }
39
40 let student = Student(firstName:"Mateusz",lastName:"Kłos",points:1)
41 student.printS()
42
43
```

Mateusz - Kłos - 1.0

## Zadanie 5. Enkapsulacja i metody klasowe.

```
6  import Foundation
7
8  //z5
9  class Student{
10     private var name:String
11     private var lastName:String
12     private var points:Double
13     init(name:String,lastName:String,points:Double){
14         self.name = name
15         self.lastName = lastName
16         self.points = points
17     }
18     func printS(){
19         print("\(name) - \(lastName) - \(points)")
20     }
21
22     internal func showStudent(){
23         var auraColor:String
24         switch points {
25             case 0...5:
26                 auraColor = "red"
27             case 6...10:
28                 auraColor = "orange"
29             case 11...15:
30                 auraColor = "purple"
31             case 16...20:
32                 auraColor = "green"
33             default:
34                 auraColor = ""
35         }
36         print("\(name) has a \(auraColor) face color")
37     }
38 }
39
40 let student = Student(name:"Mateusz",lastName:"Klos",points:2)
41 student.showStudent()
42
43
```

Mateusz has a red face color

## Zadanie 6. Dziedziczenie.

```
3 //z6
4 class Person{
5     var name:String
6     var lastName:String
7     init(name:String,lastName:String){
8         self.name = name
9         self.lastName = lastName
10    }
11 }
12
13 class Student:Person{
14     var points:Double
15     init(name:String,lastName:String,points:Double){
16         self.points = points
17         super.init(name: name, lastName: lastName)
18     }
19     func printS(){
20         print("\(name) - \(lastName) - \(points)")
21     }
22
23     internal func showStudent(){
24         var auraColor:String
25         switch points {
26             case 0...5:
27                 auraColor = "red"
28             case 6...10:
29                 auraColor = "orange"
30             case 11...15:
31                 auraColor = "purple"
32             case 16...20:
33                 auraColor = "green"
34             default:
35                 auraColor = ""
36         }
37         print("\(name) has a \(auraColor) face color")
38     }
39 }
40 let student = Student(name:"Mateusz",lastName:"Klos",points:2)
41 student.showStudent()
42
43
```

Mateusz has a red face color