

# Swift Programming – Solutions

## Question 1

Output:

C

D

Explanation:

conditionOne = false

conditionTwo = true

So C and D are printed.

## Question 2

Output:

myCoolApp hasn't released yet

Explanation:

Version is between 0.0 and 1.0 so first case matches.

## Question 3

Output:

D

Explanation:

x = 4 does not fall in any range except default.

## Question 4

Correct Answer:

No default case in the switch statement.

## Question 5

Solution:

```
let currentWeather = "rain"
```

```
switch currentWeather {  
    case "rain":  
        print("Carry an umbrella")  
    case "sunny":  
        print("Wear sunglasses")  
    case "snow":  
        print("Stay warm")  
    default:  
}
```

```
    print("Unknown weather")
}
```

## Question 6

Solution:

```
let firstName = "John"
let lastName = "Appleseed"
let fullName = "The Fellow's full name is \(firstName) \lastName"
print(fullName)
```

## Question 7

Solution:

```
let temperatureInFahrenheit = 34
```

```
switch temperatureInFahrenheit {
  case ...40:
    print("It's cold out.")
  case 85...:
    print("It's really warm.")
  default:
    print("Weather is moderate.")
}
```

## Question 8

Solution:

```
if true {
  print("You win!")
} else {
  print("You lose!")
}
```

## Question 9

Solution:

```
var numberOfSides = 6
```

```
switch numberOfSides {
  case 3:
    print("Triangle")
  case 4:
    print("Quadrilateral")
  case 5:
    print("Pentagon")
  case 6:
    print("Hexagon")
```

```
case 7:  
    print("Heptagon")  
case 8:  
    print("Octagon")  
case 9:  
    print("Nonagon")  
case 10:  
    print("Decagon")  
default:  
    print("Error")  
}
```

### Question 10

Solution:

```
let score = 85
```

```
switch score {  
case 100:  
    print("A+")  
case 90...99:  
    print("A")  
case 80...89:  
    print("B")  
case 70...79:  
    print("C")  
case 65...69:  
    print("D")  
default:  
    print("F")  
}
```

### Question 11

Error:

lastName is declared inside if block.

Correct Code:

```
let firstName = "Peter"  
var lastName = ""
```

```
if firstName == "Peter" {  
    lastName = "Gabriel"  
} else if firstName == "Phil" {  
    lastName = "Collins"  
}
```

```
let fullName = firstName + " " + lastName
```

### Question 12

If Statement:

```
let age = 25
```

```
if age >= 20 && age < 30 {  
    print("You are in your twenties")  
}
```

Switch Statement:

```
switch age {  
case 20...29:  
    print("You are in your twenties")  
default:  
    print("Other decade")  
}
```

### Question 13

Current Output:

The answer to life, the universe and everything

Changes:

365 → Days in year

1024 → Bytes in a Kilobyte

65 → Some uninteresting number

Removing default causes compile-time error.

### Question 14

If-Else:

```
if population > 10000 {  
    message = "Large town"  
} else if population > 5000 {  
    message = "Medium size town"  
} else {  
    message = "Mid-size town"  
}
```

Switch:

```
switch population {  
case 10001...:  
    message = "Large town"
```

```
case 5001...10000:  
    message = "Medium size town"  
default:  
    message = "Mid-size town"  
}
```

### Question 15

Using if:

```
let myTuple = (5, 10)
```

```
if myTuple.0 + myTuple.1 >= 15 {  
    print("Sum is at least 15")  
}
```

Using switch:

```
switch myTuple.0 + myTuple.1 {  
case 15...:  
    print("Sum is at least 15")  
default:  
    print("Less than 15")  
}
```