

(1A)

```
fun main() {
```

- 1) var number: Int
 // continue
 if (number <= 30)
 println(number)
 }
- 2) var num : Int
 if (num <= 10)
 println(num) 9
 // continue
 }
- 3) var hen: Int = 20
 // continue
 if (hen == 20)
 println(hen)
 }
- 4) var count : Int = 21
 if (count == 21)
 println(count)
 }
- 5) var num : Int = 49
 if (num > 22)
 println(num)
 // break
 }
- 6) var num : Int = 51
 if (num > 33)
 println(num)
 }
- 7) var num : Int = 60
 if (num = 60)
 println(num)
 }
- 8) var num : Double = 45.66
 if (num < 60)
 println(num)
 }
- 9) val count: Double = 5.668
 if (count > 4.4)
 println(count)
 }
- 10) val count: Double = 77.7
 if (count > 65.4)

```
println(count)
}
```

(1B)

```
fun main() {
```

```
    1) // conditional expression
```

```
    var footballersName: String = "Messi"
```

```
    var result : String = when {
```

```
        footballersName == "Mount" -> "Is The Best"
```

```
        footballersName == "Havertz" -> "Commands The Attack"
```

```
        footballersName == "Azpi" -> "Is The Captain"
```

```
        footballersName == "Mendy" -> "Catches The Ball"
```

```
        footballersName == "Messi" -> "Takes Free Kick"
```

```
    else -> "Invalid footballers name"
```

```
    }
```

```
    println(result)
```

```
}
```

```
    2) // conditional expression
```

```
    var nameOfSuperHeros: String = "Hulk"  var result : String = when { nameOfSuperHeros ==
```

```
"Thor" -> "Commands Lightening" nameOfSuperHeros == "Captain America" -> "Is The Leader"
```

```
    nameOfSuperHeros == "Hulk" -> "Is Very Strong"
```

```
    nameOfSuperHeros == "Iron Man" -> "Is The Flying Machine"
```

```
    nameOfSuperHeros == "Black Panther" -> "Has Vibranium"
```

```
    else => "Invalid name of super hero"
```

```
    }
```

```
    println(result)
```

```
}
```

```
    3) // conditional expression
```

```
    var virtueOfStudent : String = "Cain"
```

```
    var result : String = when {
```

```
        virtueOfStudent == "Eve" -> "Smart" virtueOfStudent == "Cain" -> "Stubborn" virtueOfStudent
```

```
        == "Abel"-> "Humble" virtueOfStudent == "Adam" -> "Nice"
```

```
    else -> "Invalid virtue of student"
```

```
    }
```

```
    println(result)
```

```
}
```

```
    4) // conditional expression
```

```
    var typesOfUtensil: String = "Fork"
```

```
    var result : String = when {
```

```
        typesOfUtensil == "Fork" -> "Yam" typesOfUtensil == "Spoon" -> "Soup" typesOfUtensil ==
```

```
"Knife" -> "Meat"
```

```
    typesOfUtensil == "Teaspoon" -> "Tea"
```

```

else -> "Invalid type of utensil"
}
println(result)
}

```

```

5) // conditional expression {
var monthOf Year: String = "June"
var result: String = when {
monthOfYear == "January" -> "Drive" monthOfYear == "March" -> "Exercise" monthOfYear ==
"June"-> "Party"
monthOf Year == "August" -> "Travel"
else -> "Invalid month of year"
}
println(result)
}

```

2) Method 1

```

fun main() {
val count : Int = 0
for (count in 1..100) {
println(count)
}
}

```

Method 2

```

fun main() {
var count : Int = 0
for (count in 1..100)
println(count)
count = count +1 // count++
}

```

```

4) class Man{
    var name : String = "Ade"
    var age : Int = 12000
    var salary : Double = 5446.87
    var initial : Char = "A"
    var carType : String = "BeNZ"

```

```

constructor(name : String, age : Int, salary : Double, initial : Char, carType : String)

```

```

this.name = name
this.age = age
this.salary = salary
this.initial = initial

```

```
this.carType = carType
```