### **M04 Midterm Exam Practice**

Time Limit None **Due** No due date Points 0 **Questions** 50 **Allowed Attempts** Unlimited

### Instructions

This is a practice exam for the midterm. It will present you with 50 questions each time you take it. All questions are taken from modules 1 - 4. You can take this exam as many times as you want to prepare you for the midterm exam.

**Take the Quiz Again** 

### **Attempt History**

	Attempt	Time	Score	
LATEST	Attempt 1	45 minutes	0 out of 0	
Submitted Se	p 18 at 1:22pm			

	Question 1 0 / 0 p	ots
	The When statement is similar in concept to the java switch statement can have a number of execution paths.	
orrect!	True	
	○ False	

0 / 0 pts **Question 2** In Kotlin, a function requires a return statement

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	O True
Correct!	False
Γ	
	Question 3 0 / 0 pts
	The package name:
Correct!	uniquely identifies the app on the device
Correct!	should be unique on the Google Play store
Correct!	Once you publish the app with this package name that name should never be changed.
Correct!	If you were to change the package name, existing users of your application will not see the app as an update
	Question 4 0 / 0 pts
	Kotlin code depends on what you write in the This is the "starting point" of the application. It calls out to other functions / classes / libraries.
Correct!	main function
	start function

begin function

main class

	Question 5	0 / 0 pts
	The operating system for iOS development is	
	Windows	
	○ Java	
Correct!	MacOS	
	OiOS	

Question 6	0 / 0 pts
Android Studio is built for Kotlin development; therefore, you car "New Kotlin Project"	n create a
○ True	
False	
	Android Studio is built for Kotlin development; therefore, you car "New Kotlin Project"  True

Question 7 0 / 0 pts

Includes everything required to build an Android application. Includes the class android.widget

	Hardware Abstraction Layer (HAL)
	Android Runtime (ART)
	Native C/C++ Libraries
	Java API Framework
	○ System apps
Correct!	Android Libraries

	Question 8	0 / 0 pts
	in Kotlin "Int" value range is:	
	O - 255	
	○ -32768 to 32767	
Correct!	<ul><li>-2,147,483,648 to 2,147,483,647</li></ul>	
	O 64 bit signed	
	<ul> <li>single-precision 32 bit floating point</li> </ul>	
	<ul> <li>double-precision 64 bit floating point</li> </ul>	

Question 9	0 / 0 pts
Thehigh level Kotlin API	exposes hardware capabilities of devices to the framework.

Correct!

Hardware Abstraction Layer (HAL)	
Android Runtime (ART)	
Native C/C++ Libraries	
○ Java API Framework	
○ System apps	
Android Libraries	

-	Question 10	0 / 0 pts
	In Kotlin, Double value range is:	
	0 - 255	
	○ -32768 to 32767	
	-2,147,483,648 to 2,147,483,647	
	64 bit signed	
	single-precision 32 bit floating point	
Correct!	double-precision 64 bit floating point	

Question 11 0 / 0 pts

What is the output of the following code?

var x:Byte =10

```
var y:Byte=15
               fun main(args: Array<String>){
                  var z=x+y
                  println("z = $z")
               }
orrect Answer
                    z = 25 
ou Answered
                   Nothing... it will not compile
                   z = z
                   z = 10011
```

```
0 / 0 pts
              Question 12
                Study the following code:
                fun main(args: Array<String>){
                  var myList = listOf(1, "This is a test")
                  myList[0] =1000
                  println(myList[0])
                }
                What is the out of this code?
                   _ 1
ou Answered
                   0 1000
                   This is a test
orrect Answer

    Unresolved reference error message

https://ivylearn.ivytech.edu/courses/1079140/quizzes/3528505
```

## The \_\_\_\_\_ significantly reduces the time it takes to update your application with changes. It was added with API Level \_\_\_\_ Java Run 10 Correct! Instant Run

### Question 14 0 / 0 pts

### Study the following code:

```
class Animal{
  var Name: String? = null
  var Breed: String? = null
  var Age: Int? = null
  constructor(Name: String, Breed: String, Age: Int):this
(){
    this.Name=Name
    this.Breed=Breed
    this.Age=Age
  }
class Cat():Animal()
fun main(args: <String>){
 var c1=Cat("Emily", "American Shorthair", 10)
  println(c1.Breed)
}
What is the output of the above code?
```

	Emily	
ou Answered	American Shorthair	
	O 10	
orrect Answer	Syntax error message	
L		
	Question 15	0 / 0 pts
	The language for iOS development is called:	
	O Java	
Correct!	Swift	
	○ Kotlin	
	○ XCode	
L		
	Question 16	0 / 0 pts
	In Kotlin, the return type Unit in a function corresof void in java.	sponds to the return type
Correct!	True	
	False	

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	Question 17 0 / 0	) pts
	When the statement is encountered inside a loop, the loop immediately terminated and will then resume its work starting with the statement after the loop	
Correct!	Break	
	Continue	
	O Return	
	○ For loop	

	Question 18	0 / 0 pts
	In Kotlin, which of the following are true about characters:	
Correct!	☑ Data type is Char	
Correct!	Always enclosed in single quotes	
	Always enclosed in double quotes	
	☐ Can hold multiple characters (ex. '12') would be correct	

Question 19	0 / 0 pts
Which of the following will correctly create an ap	oplication that will display

```
fun main(args: Array<String>){
    println("Hello")
}

fun main(args: Array<String>){
    println(Hello World")
}

Correctl

fun main(args: Array<String>){
    println("Hello World")

    }

fun main{
    println("Hello World")

    }
```

### Question 20 0 / 0 pts

```
What is the output of the following code:
fun main(args: Array<String>) {
  var temp: Int = 70
  var message: String?=null

  if (temp >= 90) message="It is really hot!"
  else if (temp>=80) message="It is warm outsid
e."
  else if (temp>=70) message="It is just right."
  else if (temp>=60) message="It is cool outsid
e."
  else message="It is cold outside!"
  println(message)
}
```

- It is really hot!
- It is warm outside.

### Correct!

It is just right.

It is cool outside.
It is cold outside!
Error message as this code contains a syntax error.

Question 21 0 / 0 pts

### Study the following code:

```
class Animal{
  var Name: String? = null
  var Breed: String? = null
  var Age: Int? = null
  constructor(Name: String, Breed: String, Age: Int):this
(){
    this.Name=Name
    this.Breed=Breed
    this.Age=Age
  constructor(Name: String):this(){
   this.Name=Name
   }
class Dog():Animal()
fun main(args: <String>){
 var d1=Dog("Ruffy","Cocker Spaniel",10)
  println(d1.Breed)
}
What is the output of the above code?
```

Nothing is wrong. It will compile fine and produce the expected results

### Correct!



It will err off since the parent class does not allow for inheritance by default. The parent class must be open. For example:

```
open class Animal{
```

}

	the child class does not allow for inheritance by default ust be open. For example:
open class Dog{	
}	
The defined c	lass is about dogs not cats
It will err off si	nce you can't have multiple constuctors

	Question 22 0 / 0 pts	
	The statement lets control go directly to the test condition and after that, continues the looping process	
	○ Break	
Correct!	Continue	
	○ Return	
	○ For loop	

	Question 23	0 / 0 pts
	Eclipse is the official IDE for Android application development	
	○ True	
Correct!	False	

	Question 24	0 / 0 pts
	The callbacks executed when the application is "visible" is / are:	
	onCreate	
Correct!	✓ onStart	
Correct!	✓ onResume	
Correct!	✓ onPause	
Correct!	✓ onStop	
	onDestroy	

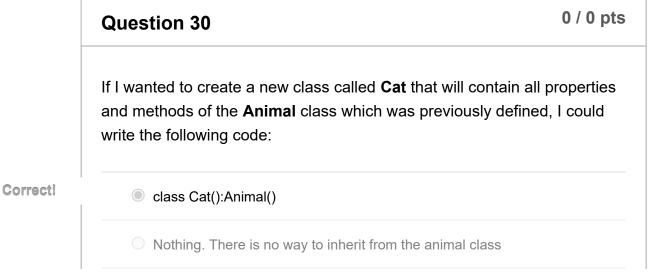
	Question 25 0 / 0 pts
	<pre>Study the following code:  class Cats{    companion object {      val numberOfCats = 0    } }</pre>
	The catsNo is a static variable which can be used by access it directly from the name of the object(ex. Cats.numberOfCats).
Correct!	
	○ False

# Question 26 What is the output of the following code: fun main(args: Array<String>){ var totSales = 5000 var yearsEmployed = 5 if (totSales >= 6000 || yearsEmployed >= 5) println("Re ceives bonus.") else println("Does not receive bonus.") } Correct! Receives bonus. Does not receive bonus. Syntax error message

	Question 27	0 / 0 pts
	The callbacks executed when the app is "active" are:	
	onCreate	
	onStart	
Correct!	onResume	
Correct!	✓ onPause	
	onStop	
	onDestroy	

	Question 28	0 / 0 pts
	The Android SDK platform is a set of libraries and APIs that are necessary in order to develop Android applications.	
Correct!	True	
	○ False	

### Correctl Question 29 The IDE for iOS Development is called XCode Android Studio Kotlin Java



Correct!

Class Cat() extends Animal()
Class Cat() implements Animal()

```
0 / 0 pts
Question 31
 Consider the following code:
 fun main(args: Array<String>){
   var count=1
   while (count<5)</pre>
     println("count= $count")
     count++
 }
 What is the output of the above code?
       count= 1
       count= 2
       count= 3
       count= 4
       count= 5
       count= 1
       count= 2
       count= 3
   count= 4
       count= 1 2 3 4
   Syntax error
```

	Question 32 0 / 0 p	ots
	Which of the following statements will correctly allow the user to enter a integer	n
Correct!	✓ var z = Integer.valueOf(readLine())	
orrect Answer	var z=readLine()!!.toInt()	
	<pre>var z=integer.valueOf(readline())</pre>	
	var z=readLine()	

	Question 33 0 / 0 pts	
	The Kotlin plugin is bundled with Android Studio version and later.	
Correct!	3.0	
	O 2.5	
	O 2.0	
	0 1.0	

Question 34	0 / 0 pts
Each application runs in its own process and contains a un of the Android Runtime on Android devices starting with Ar	•

	O 2.0
	O 4.0
	O 6.0
Correct!	◎ 8.0

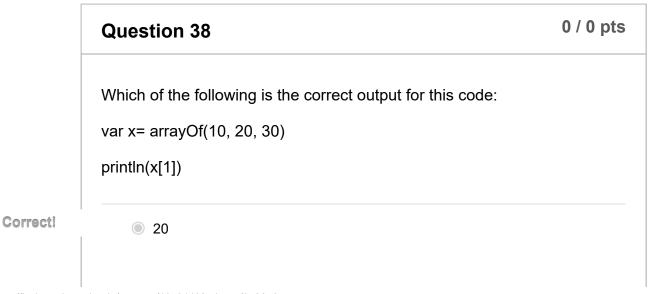
Question 35 0 / 0 pts

```
Study the following code:
fun main(args: Array<String>){
  println("What size shoes do you want?")
  println("Enter 1 for small, 2 for medium or 3 for large
shoes.")
  var shoeSize=readline()!!.toInt()
  var sizeToOrder:String?=null
 when(shoeSize){
    1-> sizeToOrder="small"
    2-> sizeToOrder="medium"
    3-> sizeToOrder="large"
    else->println("You did not enter a correct shoe siz
e.")
 println("Shoe size requested is $sizeToOrder")
If the user enters 4 at the user prompt, what will the ou
tput be for shoe size?
  Shoe size requested is small
  Shoe size requested is medium
  Shoe size requested is large
```

You did not enter a correct shoe size.

### Any method / function / block of code written outside the main function will be considered a definition and will be called from the main function to do its work. Correct! False

### Question 37 The Android Studio IDE includes both the Android SDK tools and the Android build tools True False



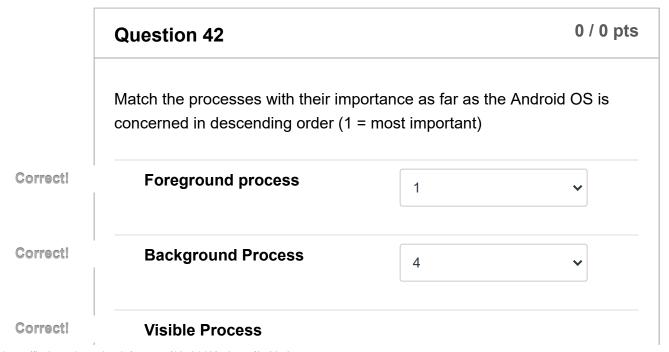
10
30
This code will not compile. It will display a compile error

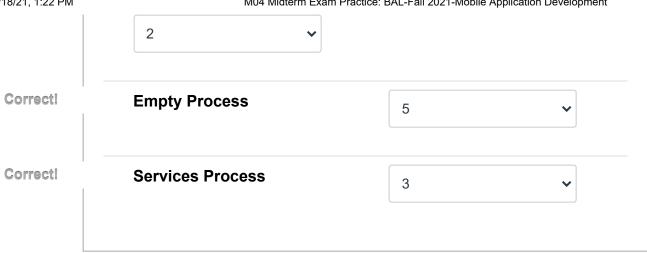
### 0 / 0 pts **Question 39** What is the output of the following code? fun main(args: Array<String>){ var item = 50if (item > 40) println("This statement is executed") println("This is the next statement") } This statement is executed Correct! This statement is executed This is the next statement This is the next statement This code will output a syntax error.

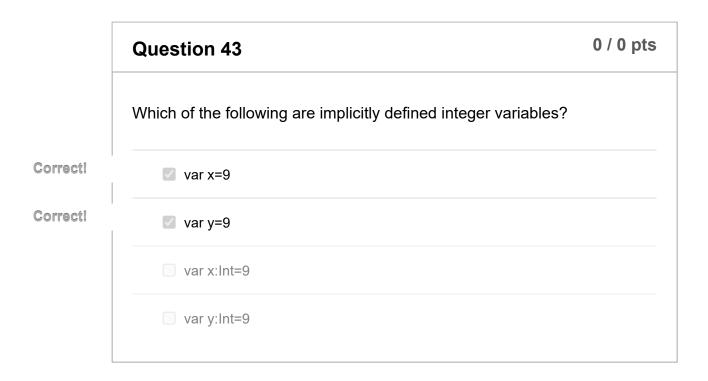
Question 40 0 / 0 pts

	In and if statement, which of the following tests to see if the item on the left is equal to the item on the right?
Correct!	<pre></pre>
	○ =
	○ !=
	O <>









```
0 / 0 pts
Question 44
 Consider the following code:
 fun main(args: Array<String>){
   var count=7
   do{
       println(count)
   } while (count><=6)</pre>
 }
 What would the output be?
```

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	1 2 3 4 5 6
Correct!	There would be no output
	0 7
	1 2 3 4 5 6 7

	Question 45	0 / 0 pts
	In Kotlin "Float" value range is:	
	0 - 255	
	-32768 to 32767	
Correct!	-2,147,483,648 to 2,147,483,647	
	64 bit signed	
	single-precision 32 bit floating point	
	O double-precision 64 bit floating point	

	Question 46	0 / 0 pts
	The Android App package name should include:	
Correct!	Two to three words separated by dots.	
	One word	
	Two to six words separated by dots	
	One sentence	
	Three to six words separated by dots.	

	Question 47 0 / 0 pts
	The programming language we will be using for Android app development is called
	○ Java
Correct!	Kotlin
	Swift
	○ Windows

Question 48

0 / 0 pts

Study the following code:

```
open class Animal{
  var Name: String? = null
  var Breed: String? = null
  open var Age: Int? = null
  constructor(Name: String, Breed: String, Age: Int):this
(){
    this.Name=Name
    this.Breed=Breed
    this.Age=Age
  constructor(Name: String):this(){
   this.Name=Name
}
class Dog():Animal(){
  override var Age: Int? = null
fun main(args: <String>){
 var d1=Dog("Ruffy", "Cocker Spaniel", 10)
  println(d1.Breed)
}
Due to inheritance, Age in Dog is the same Age in Animal
```

True

Correct!

False

Question 49 0 / 0 pts

```
Study the following code:
fun main(args: Array<String>){
  var result=sum(2,40)
  println("Result = $result")
}
fun sum(num1:Int, num2:Int) :Int
{
  var total=num1+num2
  return total
}
```

What is the output of the above code?

Result = \$result

Result = \$42

Result = 42

Syntax error message

```
0 / 0 pts
             Question 50
              What is the output of the following code:
              fun main(args: Array<String) {</pre>
                var temp: Int = 70
                var message: String?=null
                if (temp >= 90) message="It is really hot!"
                else if (temp>=80) message="It is warm outside."
                else if (temp>=70) message="It is just right."
                else if (temp>=60) message="It is cool outside."
                else message="It is cold outside!"
                 println(message)
                 It is really hot!
                 It is warm outside.
ou Answered
                 It is just right.
                 It is cool outside.
                 It is cold outside!
```

orrect Answer

Error message as this code contains a syntax error.