

Practical No: 1-A

Title: Kotlin Demonstration

1A] code: positive or negative

```
fun main(){  
    val number = -10  
    if(number > 0)  
    {  
        print("POSITIVE NUMBER")  
    }  
    else{  
        print("NEGATIVE NUMBER.")  
    }  
}
```

output:

```
Command Prompt
D:\SYCS B-21\ANDROID Practical>kotlinc positive.kt -include-runtime -d positive.jar
D:\SYCS B-21\ANDROID Practical>java -jar positive.jar
NEGATIVE NUMBER.
D:\SYCS B-21\ANDROID Practical>kotlinc positive.kt -include-runtime -d positive.jar
D:\SYCS B-21\ANDROID Practical>java -jar positive.jar
POSITIVE NUMBER
D:\SYCS B-21\ANDROID Practical>
```

1b] code: even odd

```
fun main(){
    val number = 21
    if(number %2==0)
    {
        print("EVEN NUMBER")
    }
    else{
        print("ODD NUMBER.")
    }
}
```

output:

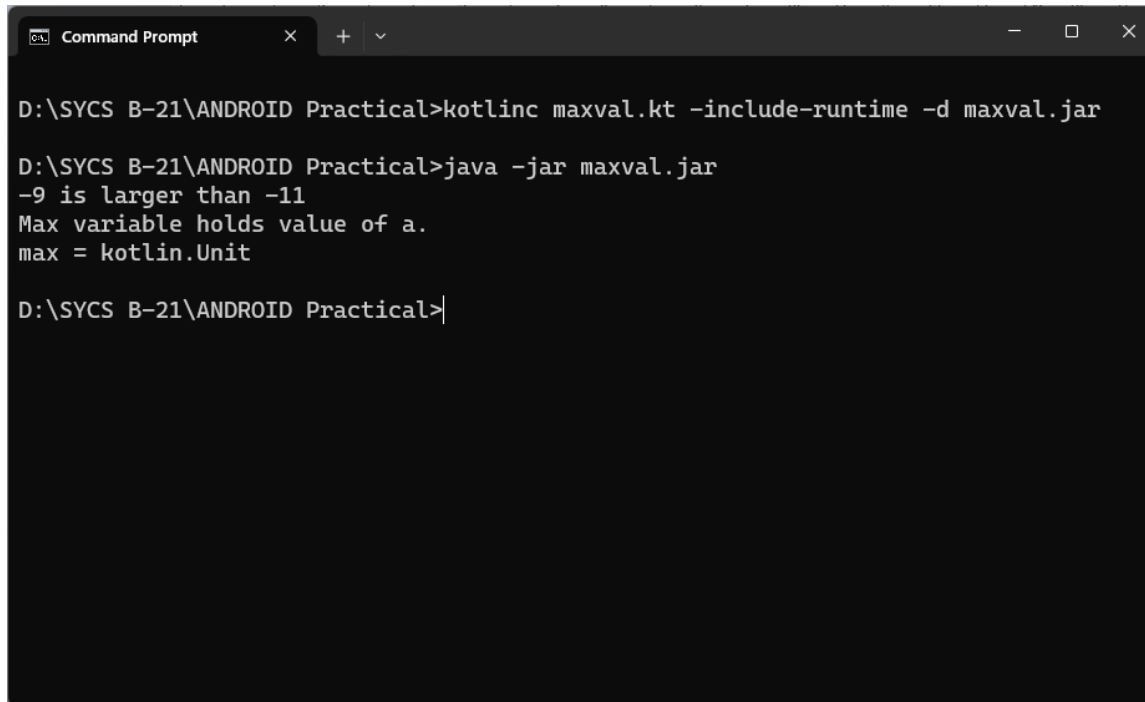
```
Command Prompt
D:\SYCS B-21\ANDROID Practical>kotlinc evenodd.kt -include-runtime -d evenodd.jar
D:\SYCS B-21\ANDROID Practical>java -jar evenodd.jar
ODD NUMBER.
D:\SYCS B-21\ANDROID Practical>
```

1c] code: max value

```
fun main(){
val a = -9
val b = -11
val max = if(a>b){
println("$a is larger than $b")
println("Max variable holds value of a.")
}
else{
println("$b is larger than $a")
println("Max variable holds value of b.")
}
```

```
}  
println("max = $max")  
}
```

output:



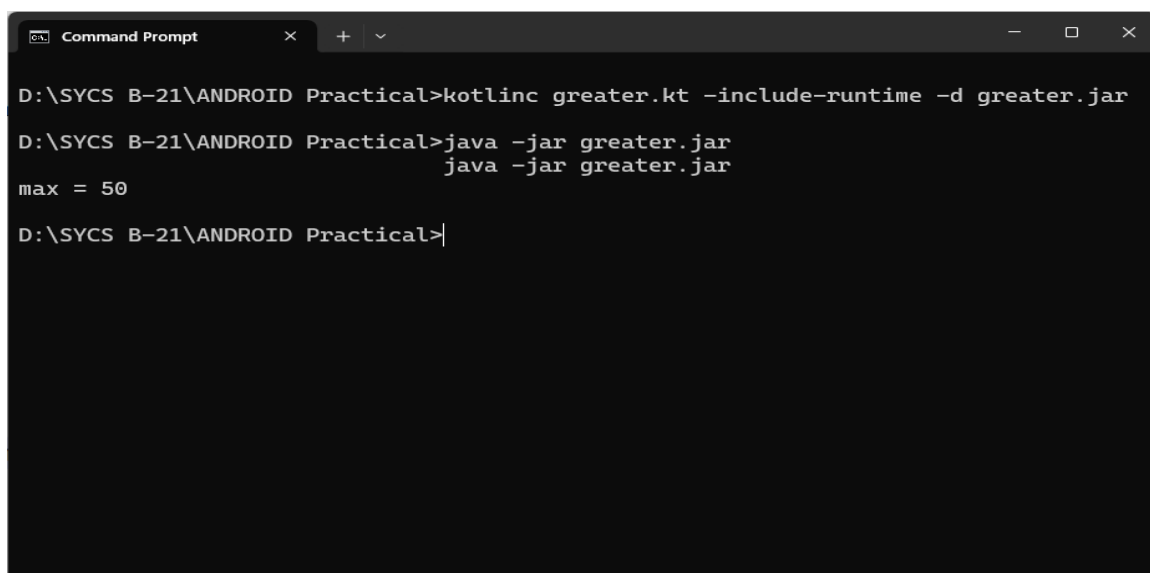
```
Command Prompt  
D:\SYCS B-21\ANDROID Practical>kotlinc maxval.kt -include-runtime -d maxval.jar  
D:\SYCS B-21\ANDROID Practical>java -jar maxval.jar  
-9 is larger than -11  
Max variable holds value of a.  
max = kotlin.Unit  
D:\SYCS B-21\ANDROID Practical>
```

1d]code: greater value

```
fun main(){  
    val n1 = 50  
    val n2 = 25  
    val n3 = -5  
    val max = if(n1>n2) {  
        if (n1>n3)
```

```
n1
else
n3
} else{
if (n2>n3)
n2
else
n3
}
println("max = $max")
}
```

output:

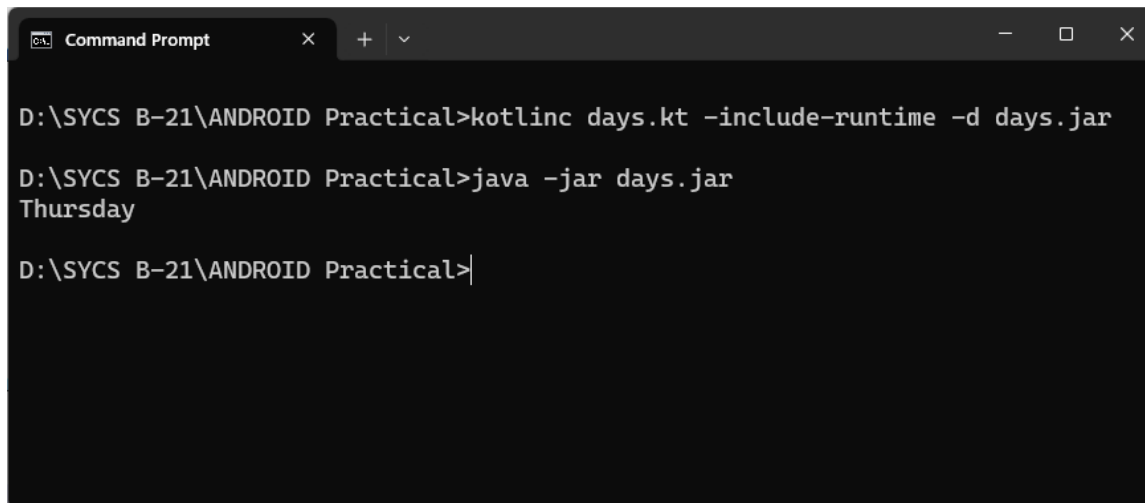


```
Command Prompt
D:\SYCS B-21\ANDROID Practical>kotlinc greater.kt -include-runtime -d greater.jar
D:\SYCS B-21\ANDROID Practical>java -jar greater.jar
                                     java -jar greater.jar
max = 50
D:\SYCS B-21\ANDROID Practical>
```

1e] code: to check days

```
fun main(){  
    val day = 4  
    val result = when(day){  
        1->"Monday"  
        2->"Tuesday"  
        3->"Wednesday"  
        4->"Thursday"  
        5->"Friday"  
        6->"Satday"  
        7->"Sunday"  
        else->"Invalid Day."  
    }  
    println(result)  
}
```

output:



```
Command Prompt
D:\SYCS B-21\ANDROID Practical>kotlinc days.kt -include-runtime -d days.jar
D:\SYCS B-21\ANDROID Practical>java -jar days.jar
Thursday
D:\SYCS B-21\ANDROID Practical>
```

1f] code: to check operator

```
fun main(){
```

```
val a = 25
```

```
val b = 5
```

```
println("Enter operator either +,-,* or /")
```

```
val operator = readLine()
```

```
val result = when(operator) {
```

```
"+" -> a+b
```

```
"-" -> a-b
```

```
"*" -> a*b
```

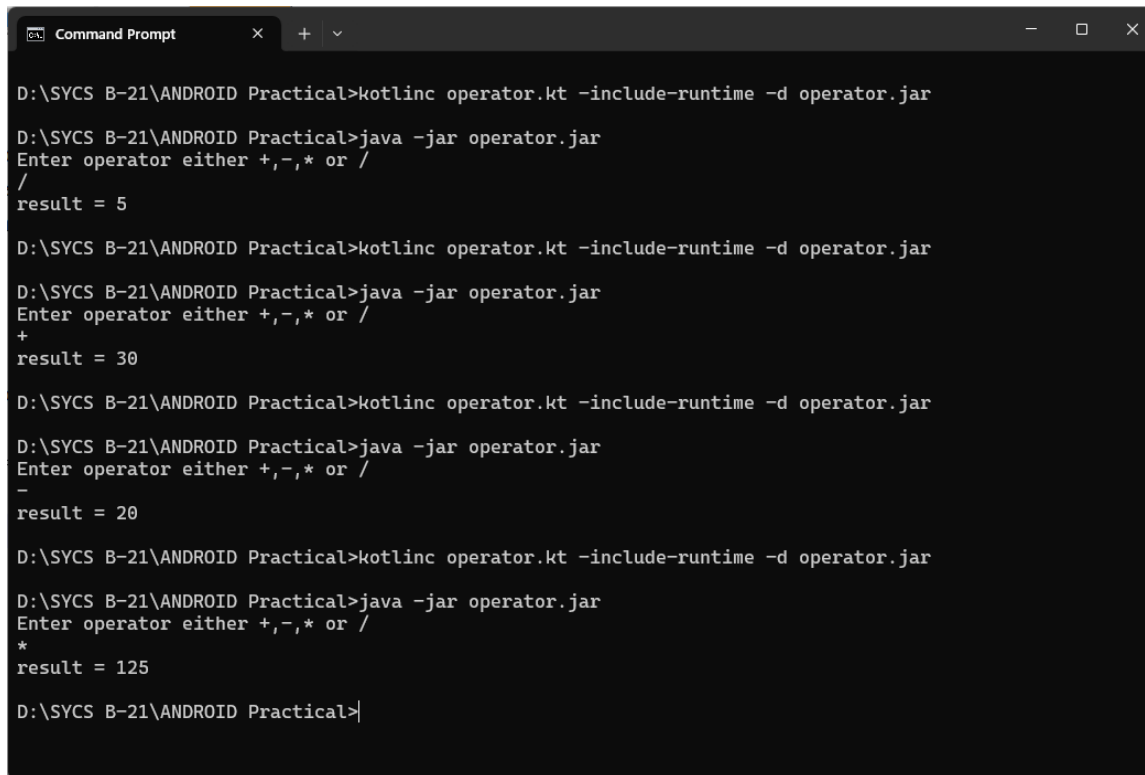
```
"/" -> a/b
```

```
else -> "$operator operator is an invalid operator."
```

```
}
```

```
println("result = $result")  
}
```

output:



```
Command Prompt  
D:\SYCS B-21\ANDROID Practical>kotlinc operator.kt -include-runtime -d operator.jar  
D:\SYCS B-21\ANDROID Practical>java -jar operator.jar  
Enter operator either +,-,* or /  
/  
result = 1.6666666666666667  
D:\SYCS B-21\ANDROID Practical>kotlinc operator.kt -include-runtime -d operator.jar  
D:\SYCS B-21\ANDROID Practical>java -jar operator.jar  
Enter operator either +,-,* or /  
+  
result = 30  
D:\SYCS B-21\ANDROID Practical>kotlinc operator.kt -include-runtime -d operator.jar  
D:\SYCS B-21\ANDROID Practical>java -jar operator.jar  
Enter operator either +,-,* or /  
-  
result = 20  
D:\SYCS B-21\ANDROID Practical>kotlinc operator.kt -include-runtime -d operator.jar  
D:\SYCS B-21\ANDROID Practical>java -jar operator.jar  
Enter operator either +,-,* or /  
*  
result = 125  
D:\SYCS B-21\ANDROID Practical>
```

1g] demonstaration of "do-while"

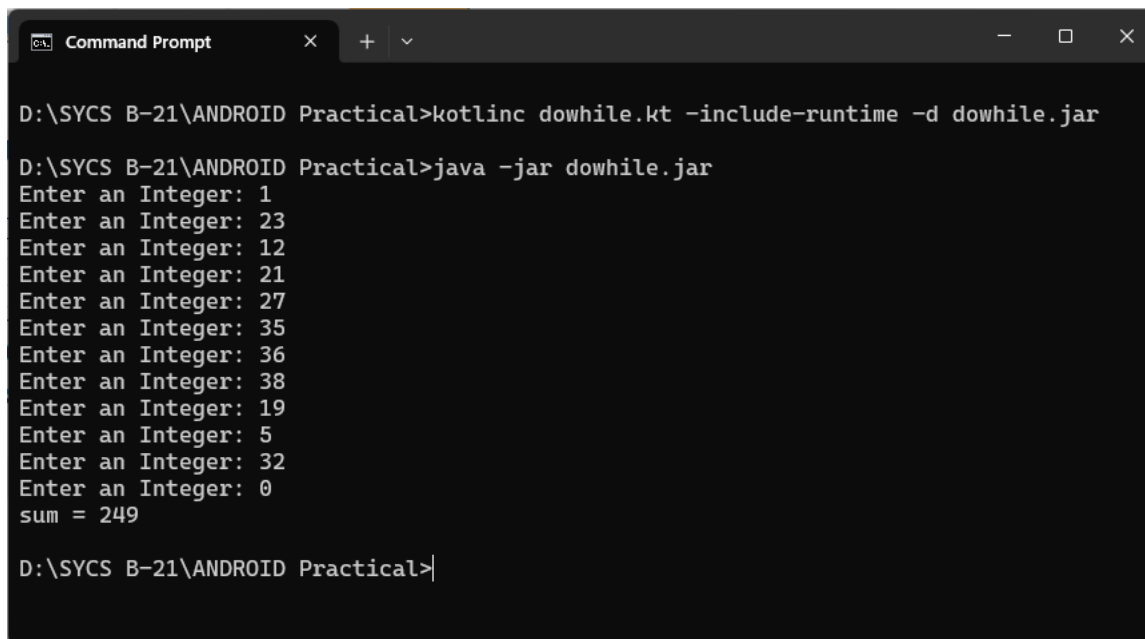
code:

```
fun main() {  
    var sum: Int = 0  
    var input: String  
    do{  
        print("Enter an Integer: ")
```



```
input = readLine()!!  
sum +=input.toInt()  
} while(input!="0")  
println("sum = $sum")  
}
```

output:



```
Command Prompt  
D:\SYCS B-21\ANDROID Practical>kotlinc dowhile.kt -include-runtime -d dowhile.jar  
D:\SYCS B-21\ANDROID Practical>java -jar dowhile.jar  
Enter an Integer: 1  
Enter an Integer: 23  
Enter an Integer: 12  
Enter an Integer: 21  
Enter an Integer: 27  
Enter an Integer: 35  
Enter an Integer: 36  
Enter an Integer: 38  
Enter an Integer: 19  
Enter an Integer: 5  
Enter an Integer: 32  
Enter an Integer: 0  
sum = 249  
D:\SYCS B-21\ANDROID Practical>
```

