fun DivideTwoNumbers(n1:Int, n2:Int):Int{  
 return n1/n2  
}  
fun StringConcatenation():String{  
 val str1 = "First Name "  
 val str2 = " Second Name"  
 return (str1 + "and" + str2)  
}  
fun findModulus():Int{  
 return 10%3  
}  
fun RelationalOperators():Boolean{  
 val a = 1<0  
 val b = 4>=4  
 *println*(a)  
 return b  
}  
  
fun factorial(num:Int):Int{  
 val result: Int  
 if(num<=1){  
 result = num  
 }else{  
 result = num \* *factorial*(num-1)  
 }  
 return result  
}  
fun sum(x:Int, y: Int):Int = x + y  
  
fun calculate(x: Int, y:Int,operation:(Int, Int)->Int): Int{  
 return operation(x,y)  
}  
fun DaysOfWeek(){  
 val day = 1  
 if(day == 0) {  
 *println*("Sunday")  
 }  
 else if(day == 1){  
 *println*("Monday")  
 }  
 else if(day == 2){  
 *println*("Tuesday")  
 }  
 else if(day == 3){  
 *println*("Wednesday")  
 }  
 else if(day == 4){  
 *println*("Thursday")  
 }  
 else if(day == 5){  
 *println*("Friday")  
 }  
 else{  
 *println*("Invalid Day")}  
  
}  
fun main(args: Array<String>) {  
 *//calling functions  
  
 println*(*DivideTwoNumbers*(8526,7))  
 *StringConcatenation*()  
  
 *//Operators  
println*(*findModulus*())  
*println*(*RelationalOperators*())  
 val x = 5  
 *//recursion  
 println*(*factorial*(x))  
  
 *//Higher holder fucntion  
 println*(*calculate*(5,6, ::sum))  
  
 *//Decision making  
 println*(*DaysOfWeek*())  
  
 *//loops* var num = 0  
 while(num++<5){  
 *println*(num)  
 if(num ==3 ){  
 continue  
 }  
  
 }