DAY 1 TASKS

**Task 2:** Explore Kotlin REPL (Read-Eval-Print Loop) to familiarize with Kotlin syntax and basic operations

CODE:

package task2BasicSyntax  
  
val *name*="subbu"  
var *age*=15  
val *a*=10  
val *b*=10  
  
fun main(){  
 *println*(*name*)  
 *println*(*age*)  
 *println*(*a*+*b*)//arithmatic operations  
 *println*(*result*)  
 for(i in 1..10){  
 *println*("i=$i")  
 }  
 *println*(*List*)  
 //println(nullSafetystring?.length?:"String is null")  
 if(*nullSafetystring*!=null){  
 *println*(*nullSafetystring*)  
 }  
 else{  
 *println*("null")  
 }  
}  
var *day* =3  
val *result*=when(*day*){  
 1->"Monday"  
 2->"Tuesday"  
 3->"Wednesday"  
 4->"Thursday"  
 else->"Invalid Details"  
}  
val *List*= *listOf*(1,2,3,4,5,6,7)  
val *nullSafetystring*:String?="null"

OUTPUT:

subbu

15

20

Wednesday

i=1

i=2

i=3

i=4

i=5

i=6

i=7

i=8

i=9

i=10

[1, 2, 3, 4, 5, 6, 7]

Null

**Task 3:** Create a Transaction class with properties such as amount, date, and category

CODE:

class Transaction(var amount:Double, var Date:String, val category:String)  
{  
 fun TransactionDetails() {  
 *println*("Details of Transaction")  
 *println*("Amount:$amount")  
 *println*("Date:'$Date'")  
 *println*("category:'$category'")  
  
 }  
  
}  
fun main() {  
 *println*("Hello World!")  
 val transaction=Transaction(50.0,"2025-01-09","milk")  
 transaction.TransactionDetails()  
}

OUTPUT:

Hello World!

Details of Transaction

Amount:50.0

Date:'2025-01-09'

category:'milk'

**Task 4:** Implement control structures to categorize transactions (e.g., Food, Utilities, Entertainment) using when statements

CODE:

class Transaction(var amount:Double, var Date:String, val category:String)  
{  
 fun TransactionDetails() {  
 *println*("Details of Transaction")  
 *println*("Amount:$amount")  
 *println*("Date:'$Date'")  
 *println*("category:'$category'")  
 *println*("Type:${categorizeTransactions()}")  
 }  
 fun categorizeTransactions():String {  
 return when(category) {  
 "groceries ","rice"->"Food"  
 "water","Electricity"->"Utilities"  
 "movies","playingGames"->"Entertainment"  
  
 else->"Other"  
 }  
 }  
}  
fun main() {  
  
 val transactions= *listOf*(Transaction(100.0,"2025-01-10","rice"),  
 Transaction(200.0,"2025-01-11","water"),  
 Transaction(300.0,"2025-01-12","movies") ,  
 Transaction(500.0,"2025-01-13","Miscellaneous")  
 )  
 for(trans in transactions ) {  
 trans.TransactionDetails()  
 *println*()  
 }  
  
}

OUTPUT:

Details of Transaction

Amount:100.0

Date:'2025-01-10'

category:'rice'

Type:Food

Details of Transaction

Amount:200.0

Date:'2025-01-11'

category:'water'

Type:Utilities

Details of Transaction

Amount:300.0

Date:'2025-01-12'

category:'movies'

Type:Entertainment

Details of Transaction

Amount:500.0

Date:'2025-01-13'

category:'Miscellaneous'

Type:Other