**Dart Codes**

**Assignment**

1. **Anagram.dart**

bool areAnagram(String str1, String str2)

{

int n1 = str1.length;

int n2 = str2.length;

if (n1!= n2)

return false;

str1.split(' ').toList().sort();

str2.split(' ').toList().sort();

for (int i = 0; i < n1; i++)

if (str1[i]!=str2[i])

return false;

return true;

}

void main(){

String str1 = "silent";

String str2 = "listen";

bool value=areAnagram(str1, str2);

print(value);

}

1. **CustRec.dart**

class Customer {

String name;

double totalprice = 0;

List cust\_values = new List<List>();

List<Set> address = new List<Set>();

Set<String> office\_add = new Set<String>();

Set<String> resd\_add = new Set<String>();

Map<String, List> order\_details = new Map<String, List>();

List<List> product = new List<List>();

Customer(String name) {

this.name = name;

}

void setrelation() {

address = [office\_add, resd\_add];

cust\_values = [address, order\_details];

}

}

void main() {

Customer c1 = new Customer("Sanjna");

Customer c2 = new Customer("Shahid");

//adding address details

c1.office\_add = {"ABC", "XYZ"};

c1.resd\_add = {"123adv", "987rtf"};

c2.office\_add = {"adsd", "dewra"};

c2.resd\_add = {"hhajds", "sadjs"};

//adding product prices in list

c1.product.add([4000, 3400, 2000]);

c1.product.add([2200, 500, 2440]);

c1.product.add([1100, 222, 500]);

c2.product.add([2300, 4500, 2233]);

c2.product.add([2232, 2122]);

c1.product[0].sort((a, b) => a - b);

c1.product[1].sort((a, b) => a - b);

c1.product[2].sort((a, b) => a - b);

c2.product[0].sort((a, b) => a - b);

c2.product[1].sort((a, b) => a - b);

for (int i = 0; i < c1.product.length; i++) {

c1.totalprice += c1.product[i]

.fold(0, (previousValue, element) => previousValue + element);

}

for (int i = 0; i < c2.product.length; i++) {

c2.totalprice += c2.product[i]

.fold(0, (previousValue, element) => previousValue + element);

}

c1.order\_details = {

"ORDERID001": c1.product[0],

"ORDERID002": c1.product[1],

"ORDERID003": c1.product[2]

};

c2.order\_details = {"ORDERID567": c2.product[0], "ORDERID865": c2.product[1]};

c1.setrelation();

c2.setrelation();

Map<String, List> cust\_records = new Map<String, List>();

cust\_records.putIfAbsent(c1.name, () => c1.cust\_values);

cust\_records.putIfAbsent(c2.name, () => c2.cust\_values);

cust\_records.forEach((key, value) {

print("Customer name: $key");

value.forEach((element) {

if (element is List) {

print("Office address: " + element[0].toString());

print("Resedential address: " + element[1].toString());

} else

print("Customer order Records:\n $element");

});

});

print("Customer: " +

c1.name.toString() +

" Total Price: " +

c1.totalprice.toString());

print("Customer: " +

c2.name.toString() +

" Total Price: " +

c1.totalprice.toString());

}

1. **LeaderArray.dart**

void main(){

{

var ls=[300,40,60,90,100,12,16, 17, 4, 3, 5, 2];

for (int i = 0; i <ls.length; i++)

{

int j;

for (j = i+1; j <ls.length; j++)

{

if (ls[i] < ls[j])

break;

}

if (j == ls.length)

print("${ls[i]}");

}

}

}

1. **MissingNo.dart**

void main(){

List ls=[1,2,3,4,5,6,7,3,4,5];

var r=ls.toSet().toList();

if(ls.length>r.length){

print("boys");

}

else{

print("girls");

}

}

1. **ProfParty.dart**

import 'dart:io';

void main() {

int testcases = int.parse(stdin.readLineSync());

int n;

for (int i = 0; i < testcases; i++) {

int npeople = int.parse(stdin.readLineSync());

List<int> a = new List<int>();

for (int j = 0; j < npeople; j++) {

n = int.parse(stdin.readLineSync());

a.insert(j, n);

}

if (color(a, npeople))

print("BOYS");

else

print("GIRLS");

}

}

bool color(List<int> a, int n) {

Map<int, int> colorcode = new Map<int, int>();

for (int j = 0; j < n; j++) {

if (!colorcode.containsKey(a[j]))

colorcode.putIfAbsent(a[j], () => 1);

else

return true;

}

return false;

}