Q 1) How to duplicate repeating items inside a dart list ?

***Solvig***

void main() {

for(int i=0;i > 10; i++) {

print(i);

}

var j = “hello”;

var k = 1;

while(k < 7){

print(j);

j++;  
}

}

B) what can to be done in order to not repeat Ball() in multiple time ?

void main() {

var h ="hello";

do{

print(h);

} while(h != h);

}

Q 2) How to get difference of list in fultter/Dart ?

**Problem**

Consider you have two lists [1,2,3,4,5,6,7] and [3,5,6,7,9,10].How would you nget the difference as output ? eg.[124]

**Solving**

void main() {

List<int> list1 = [1,2,3,4,5,6,7];

List<int> list2 = [3,5,6,7,9,10];

print(list1);

print(list2);

var ilt = list1.where((e) => !list2.contains(e)).toList();

print(ilt);

}

Q 5) Write a program to print multiplication table of 7 length 15 ?

***Solving***

void main() {

var table = 7;

var len = 1;

for ( table; len < 15; len++) {

print('$table X $len = ${table \* len}');

}

}

Q 7) Write a program to print multiples of 5 ranging 1 to 100.

***Sloving***

void main() {

var i = 1;

for ( i ; i <= 100 ; i\*5){

print (i);

}

}

Q 6) Write a program to print items of the following array using for loop:

fruits = [“apple”, “banana”, “mango”, “orange” , “strawberry”].

***Solving***

void main() {

var fruits = ["Apple","banana","Mango","Orange","Strawberry"];

var len = fruits.length-1;

for ( var i = 0 ; i <= len ; i++){

print (fruits[i]);

}

}

Q 4) Ask the user for a number and determine whether the number is

prime or not.s

***Solvingi***

import 'dart:math';

class TestPrime {

int startingPoint = 1;

int endPoint = 0;

int factors = 0;

void testPrime(int testPrime) {

endPoint = testPrime;

for (startingPoint; startingPoint <= sqrt(endPoint); startingPoint++) {

if (endPoint % startingPoint == 0) {

factors++;

}

}

if (factors <= 2) {

print('$endPoint is prime.');

} else {

print('$endPoint is not prime.');

}

}

}

void main(List<String> args) {

var testPrime = TestPrime();

testPrime.testPrime(261);

}

Q 3) Let’s say you are given a list saved in a variable:

Consider a = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100].

Write a code that takes this list and makes a new list that has only the

even elements of this list in it.

***Solving***

void main (){

var num1 = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100];

for(var i in num1){

if(i%2 == 0){

print(i);

}

}

}

Q 10) Write a program that takes a character (I. e. string of length 1)

and returns true if it is a vowel, false otherwise.

***Solving in loop***

void main (){

var vowel = ["a","e","i","sami","o","u"];

for (var i in vowel){

if(i == "a" || i == "e" || i == "i" || i =="o" || i == "u"){

print("$i ) its vowel value \n");

}else{

print("$i ) not a vowel value \n");

}

}

}

***OR***

***Simple solving***

void main (){

var inp = "a";

if(inp == "a" || inp == "e" || inp == "i" || inp == "o" || inp == "u"){

print("$inp ) its vowel value \n");

}else{

print("$inp ) not a vowel value \n");

}

}

Q 8) The Temperature Converter: It’s hot out! Let’s make a converter

based on the steps here.

a. Store a Celsius temperature into a variable.

b. Convert it to Fahrenheit & output “NNoC is NNoF”.

c. Now store a Fahrenheit temperature into a variable.

d. Convert it to Celsius & output “NNoF is NNoC”.

***Solving***

void main() {

var cel = 50;

var far = (cel \* 9 / 5) + 32 ;

print("To day temperature in Celcius is $cel C");

print("NNOC = $cel to NNOF = $far");

print("NNOF = $far to NNOC = $cel");

// now convert Fahrenheit to celsius

var f\_To\_C = (far - 32) \* 5 / 9 ;

print("Convert fahrenheit to celcius\n");

print("NNOC = $f\_To\_C to NNOF = $far");

print("NNOF = $far to NNOC = $f\_To\_C");

}

Q 9 ) Write a program to create a calculator for +, -, \*, / & % using if

statements. Take the following input:

a. First number Second number

b. Operation (+, -, \*, /, %)

Compute & show the calculated result to user.

***Solving***

void main (){

var finp = 120;

var sinp = 10;

var add = finp + sinp ;

var sub = finp - sinp ;

var mul = finp \* sinp ;

var div = finp / sinp ;

var per = finp / sinp \* 100 ;

var choise = per;

var res = choise;

if(res == choise){

print(res);

}

}

Q 1 ) How to duplicate repeating items inside a Dart list?

Problem

Consider the code:

final List<Ball> \_ballList = [Ball (), Ball (), Ball (), Ball (), Ball (),]

What can to be done in order to not repeat Ball () multiple times?

***Sloving***

void main() {

List<String> ballList = ["Ball ()","Ball ()","Ball ()","Ball ()","Ball ()"];

List<String> finalList = ballList.toSet().toList();

print(finalList);

}