**ASSIGNMENT # 03**

**Q.1: Create a list of names and print all names using list.**

void main() {

list names = ["Azhar","Taimoor","Ali","Rehan"];

print(names);

}

**OUTPUT:**

[Azhar, Taimoor, Ali, Rehan]

**Q.2: Create an empty list of type string called days. Use the add method to add names of 7 days and print all days.**

void main (){

List days = [];

days.addAll(["monday","tuesday","wednesday","thursday","friday","saturday","sunday"]);

print(days);

}

**OUTPUT:**

[monday, tuesday, wednesday, thursday, friday, saturday, sunday]

**Q3. Add your 7 friend names to the list. Use where to find a friend name that starts with alphabet a.**

void main(){

List<String> names = [ "Azhar" , "Majid" , "Faisal" , "Jawad" , "Ali"];

List<String> startWithA =

names.where((element) => element.startsWith("A")).toList();

print(startWithA);}

**OUTPUT:**

[Azhar, Ali]

**Q.4 Create a map with name, address, age, country keys and store values to it. Update country name to other country and print all keys and values.**

void main (){

var map ={'Name':'Zain','Address':'Karachi','age':'28','Country':'Pakistan'};

print(map);

map['Country']="India";

print(map);

print('key is $map.keys');

print('value is $map.values');

}

**OUTPUT:**

{Name: Zain, Address: Karachi, age: 28, Country: Pakistan}

{Name: Zain, Address: Karachi, age: 28, Country: India}

key is {Name: Zain, Address: Karachi, age: 28, Country: India}.keys

value is {Name: Zain, Address: Karachi, age: 28, Country: India}.values

**Q.5 Create a map with name, phone keys and store some values to it. Use where to find all keys that have length 4.**

Map info = {

'name': 'Adam',

'phone': 3873829,

};

info.removeWhere((key, value) {

return key.length != 4;

});

print(info);

**OUTPUT:**

{name: Adam}

**Q.6. Create Map variable name world then inside it create countries Map (dart Map) and using key, value pair assign country, capitalCity, currency and language to it. Search for ".forEach()" mehtod and using it print all the value of world variable.**

void main(){

Map<String, String> world = {

'USA , Washington, D.C.' : 'US Dollar , English',

'India , New Delhi' : 'IND Rupee , Hindi',

'China , Beijing' : 'yen , Chinese'

};

world.forEach((key,value)=> print('Key is $key and value is $value'));

}

**OUTPUT:**

Key is USA , Washington, D.C. and value is US Dollar , English

Key is India , New Delhi and value is IND Rupee , Hindi

Key is China , Beijing and value is yen , Chinese

**Q.7. Map<String, double> mathMarks = {  
  'ram': 30,  
  'mark': 32,  
  'harry': 88,  
  'raj': 69,  
  'john': 15,  
};  
Using ".removeWhere()" method remove key, value where value <= 30 then print the updated map mathMarks variable.**

void main() {

Map<String, double> mathMarks = {

"ram": 30,

"mark": 32,

"harry": 88,

"raj": 69,

"john": 15, };

mathMarks.removeWhere((key, value) => value <= 30);

print(mathMarks); }

**OUTPUT:**

{mark: 32, harry: 88, raj: 69}

**Q.8. Map<String, double> expenses = {  
  'sun': 3000.0,  
  'mon': 3000.0,  
  'tue': 3234.0,  
};  
  
Check if "fri" exist in expanses; if exist change it's value to 5000.0 otherwise add 'fri' to expenses and set its value to 5000.0 then print expenses.**

void main (){

Map<String, double> expenses = {

'sun': 3000.0,

'mon': 3000.0,

'tue': 3234.0,

};

print("Does Map contain key fri: ${expenses.containsKey("fri")}");

expenses['fri'] = 5000.0;

print(expenses);

}

**OUTPUT:**

Does Map contain key fri: false

{sun: 3000, mon: 3000, tue: 3234, fri: 5000}