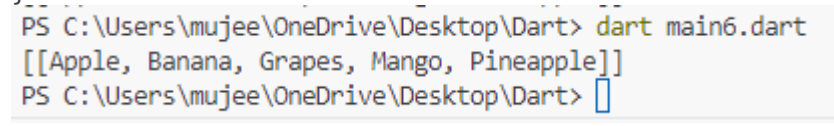


Name: Mujeeb Sheikh

Assignment No 5

- Write a Dart program to create a list of your favorite fruits and print them in alphabetical order.

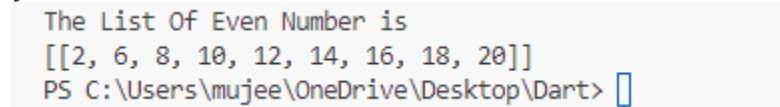
```
void main(){
List fruitlist = ['Banana', 'Mango', 'Apple', 'Pineapple', 'Grapes'];
([fruitlist.sort()]);
print([fruitlist]);
}
```



```
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main6.dart
[[Apple, Banana, Grapes, Mango, Pineapple]]
PS C:\Users\mujee\OneDrive\Desktop\Dart>
```

- Create a list of even numbers from 1 to 20 and print them.

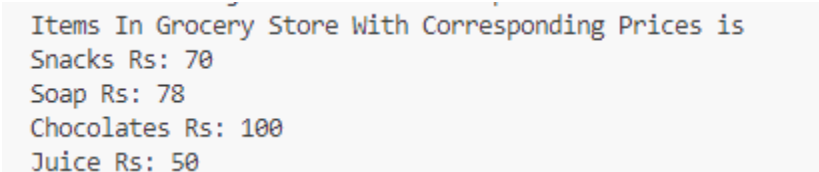
```
void main(){
List <int> evenno = [2,6,8,10,12,14,16,18,20];
print('The List Of Even Number is ');
print([evenno]);
}
```



```
The List Of Even Number is
[[2, 6, 8, 10, 12, 14, 16, 18, 20]]
PS C:\Users\mujee\OneDrive\Desktop\Dart>
```

- Create a map representing the prices of items in a grocery store. Print out the items and their corresponding prices

```
void main(){
Map <String, int> prices = {'Snacks':70, 'Soap':78, 'Chocolates': 100,
'Juice':50};
print('Items In Grocery Store With Corresponding Prices is ');
print("Snacks Rs: ${prices['Snacks']} ");
print("Soap Rs: ${prices['Soap']} ");
print("Chocolates Rs: ${prices['Chocolates']} ");
print("Juice Rs:
${prices['Juice']} ");
}
```



```
Items In Grocery Store With Corresponding Prices is
Snacks Rs: 70
Soap Rs: 78
Chocolates Rs: 100
Juice Rs: 50
```

- Write a Dart program to check if a given list is empty or not.

```
void main(){
List <String> mylist = ['Mujeeb' '136'];
print([mylist.isEmpty]);
}
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main10.dart
[false]
```

- Write a Dart program to check if a given list is empty or not.
USING IF ELSE

```
void main(){
List <String> mylist = ['Mujeeb' '136'];
if (mylist.isEmpty){
    print("The List Is Empty ");
}
else {
    print('The List Is Not Empty');
}
}
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main9.dart
The List Is Not Empty
PS C:\Users\mujee\OneDrive\Desktop\Dart>
```

- Create two lists of numbers and merge them into a single list.
Print the merged list.

```
void main(){
List <int> num1 = [1,2,3,4,5,6];
List <int> num2 = [7,8,9,10,11,12];
List <int> mergelist = [...num1, ...num2];
print('The Merged List is $mergelist');
}
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main11.dart
The Merged List is [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
PS C:\Users\mujee\OneDrive\Desktop\Dart>
```

- Write a Dart program to create a map representing a student's information including name, age, and grade. Print out all the information stored in the map.

```
void main(){
  Map <String , dynamic> studentinformation = {'Name': 'Mujeeb Sheikh', 'Age':13,
'Grade':'B'};
  print('Student Infromation');
  print('Name of Student is : ${studentinformation['Name']}');
  print('Age of Student is : ${studentinformation['Age']}');
  print('Grade of Student is : ${studentinformation['Grade']}');
}
```

```
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main
Student Infromation
Name of Student is : Mujeeb Sheikh
Age of Student is : 13
Grade of Student is : B
```

Create a map representing the population of different cities. Write a Dart program to find and print the city with the highest population

```
void main(){
  Map <String,int> city= {'Karachi':50000, 'Hyderabad':35000, 'Lahore':29000,
'Peshawar': 32500};

  String cityWithHighestPopulation = '';
  int highestPopulation = 0;

  city.forEach((city, population) {
    if (population > highestPopulation) {
      highestPopulation = population;
      cityWithHighestPopulation = city;
    }
  });
  print("City with the highest population: $cityWithHighestPopulation");
}
```

```
PS C:\Users\mujee\OneDrive\Desktop\Dart> dart main13.dart
City with the highest population: Karachi
PS C:\Users\mujee\OneDrive\Desktop\Dart>
```