*EX 1 – Manipulate Types*

*Are you clear about strings, integer, list, map, set, objects in Dart?*

Examine the given data structures and **write the inferred Dart type** for each one (*see example*)

*Notes*

* *First find by yourself the type*
* *If you need, double check your answer with VSCode.*

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| **Data** | **Dart Type** |
| const studentGrades = {    'Sokan': [90, 85, 88],    'Sokea': [70, 80, 75],    'Hay': [95, 92, 89],  }; | Map<String, int> |
| const pizzaPrices = {    'margherita': 5.5,    'pepperoni': 7.5,    'vegetarian': 6.5,  }; | Map<String, double> |
| const books = [    {'title': '1984', 'author': 'George Orwell'},    {'title': 'Brave New World', 'author': 'Aldous Huxley'},    {'title': 'Fahrenheit 451', 'author': 'Ray Bradbury'},  ]; | List<map<String, String>> |
| const company = {    'HR': {'employees': 5, 'budget': 20000},    'IT': {'employees': 10, 'budget': 50000},    'Marketing': {'employees': 7, 'budget': 30000},  }; | Map<string, map<string, int> |
| const coordinates = [    [1, 2],    [3, 4],    [5, 6],  ]; | List<list<string, string>> |
| const productDetails = {    'id': 101,    'name': 'Laptop',    'price': 999.99,    'inStock': true,  }; | Map<string, dynamic > |
| const operations = [    (int a, int b) => a + b,    (int a, int b) => a - b,    (int a, int b) => a \* b,  ]; | List<int Function(int, int)> |
| const distances = {3.1, 5.5, 10.2, 7.8}; | Set<double> |
| const university = {    'departments': [      {        'name': 'Computer Science',        'students': [          {'name': 'Alice', 'age': 22},          {'name': 'Bob', 'age': 24},        ]      },      {        'name': 'Mathematics',        'students': [          {'name': 'Charlie', 'age': 21},          {'name': 'Dave', 'age': 23},        ]      }    ]  }; | Map<string ,<list<map<string,object>>> |