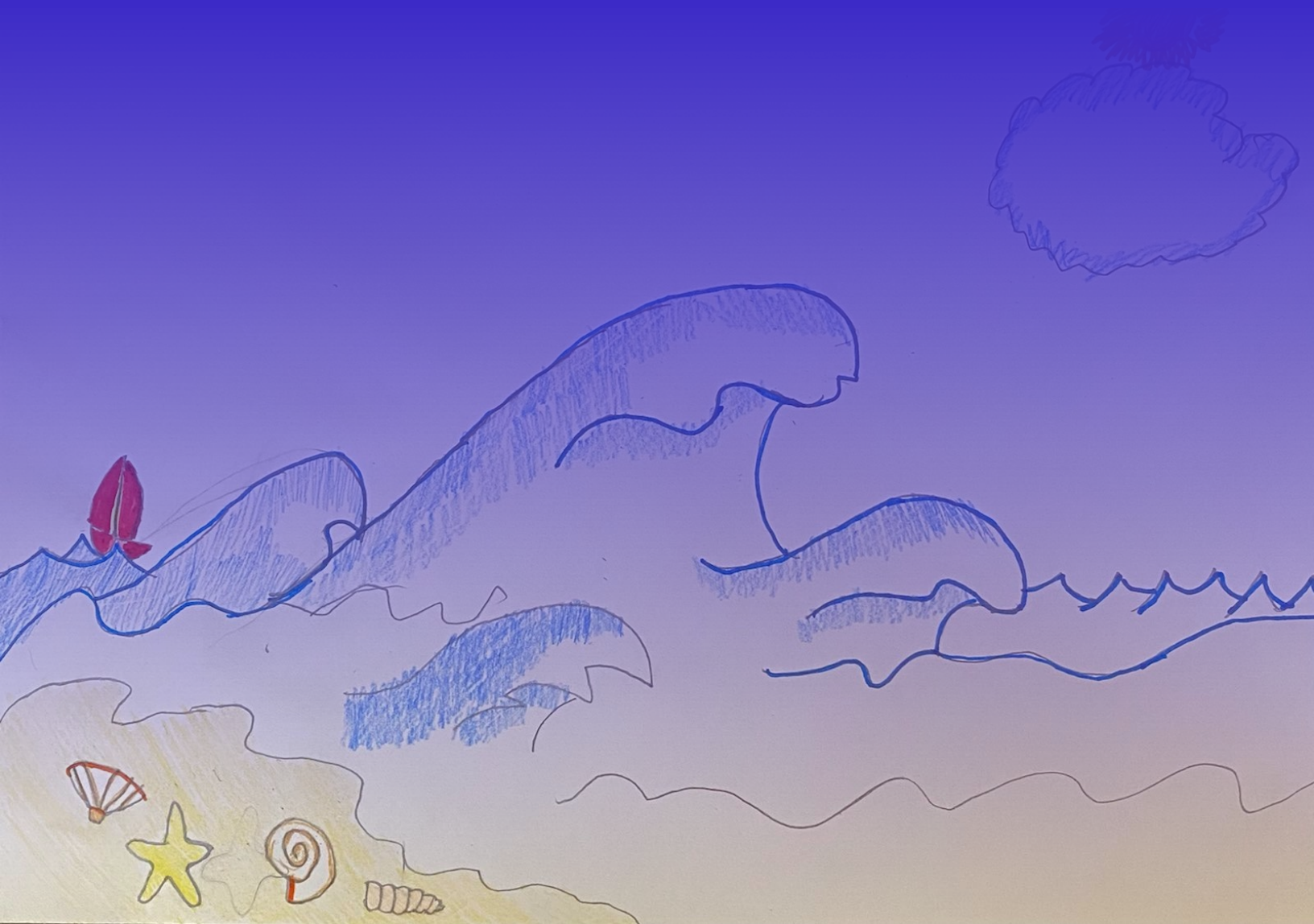

Introduction to Programming in Python

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Contents

1	Data Types	3
1.1	bool	3
2	The print Function	4

1 Data Types

We have different kinds of built-in *things* in Python. These *things* are called data types. Here is their table:

Data Type	Category	Examples
<code>bool</code>	Boolean	<code>False</code> , <code>True</code>
<code>int</code>	Integers	1, 2, 3, -1, -2, -3, 0
<code>float</code>	Floating point numbers	0.5, 1.5, 2.5, -0.5, -1.5, -2.5
<code>complex</code>	Complex numbers	$1 + i$, $2 + 2i$, $-3 + 5i$
<code>str</code>	Text sequence type	<code>"a"</code> , <code>"abc"</code> , <code>"Hello, world!"</code>
<code>list</code>	Sequence type	<code>[]</code> , <code>[0]</code> , <code>[1, 2, 3]</code> , <code>["ab", "bc", "cd"]</code>
<code>tuple</code>	Sequence type	<code>()</code> , <code>(0)</code> , <code>(1, 2, 3)</code> , <code>("ab", "bc", "cd")</code>
<code>range</code>	Sequence type	<code>range(10)</code> , <code>range(1, 10)</code> , <code>range(3, 8, 2)</code>
<code>set</code>	Set type	<code>{}</code> , <code>{0}</code> , <code>{1, 2, 3}</code> , <code>{"ab", "bc", "cd"}</code>
<code>frozenset</code>	Set type	<code>frozenset({})</code> , <code>frozenset({0})</code> , <code>frozenset({1, 2, 3})</code>
<code>dict</code>	Mapping type	<code>{}</code> , <code>{0: 1}</code> , <code>{2: 3, 4: 5}</code> , <code>{"a": 0, "b": 1, "c": 2}</code>

Table 1: Built-in Data Types

1.1 `bool`

This is great.

2 The `print` Function

Just like in math, we have functions in Python as well. While we will cover Python functions in a greater detail in later chapters, the `print` function is so useful that we will start by learning how it works!

```
>>> print("Hello, world!")  
Hello, world!
```

The way `print` works is that you write out these characters `p-r-i-n-t`, followed by the left paren `(`, followed by whatever we want to print, and finally the right paren `)`.

```
>>> print(0)  
0  
>>> print(1)  
1  
>>> print(9)  
9  
>>> print(10)  
10
```