

Practical 6

Task 1 (20 marks):

In this task, you are required to build a program that allows the user to input the size of an array and the values in the array with the following functions:

Write a function called `findMax` that takes an array of integers and its size as an argument and returns the largest number in the array.

Write a function called `findMin` that takes the same array and returns the smallest number.

Write a function called `findAverage` that calculates and returns the average of all the numbers in the array.

Task 2 (30 marks):

You are tasked with creating a pizza ordering system for a restaurant that allows customers to fully customize their pizza. The customers will be able to choose the pizza size, crust type, and number of toppings. The price of the pizza will be calculated based on these choices, with random prices generated for each topping (Ensure to Initialize random seed).

- Create a function `getPizzaSizePrice` to calculate the price based on the size of the pizza.
- Create a function `getCrustPrice` to calculate the price based on the crust type.
- Create a function `getToppingPrice` that generates random prices for each topping.
- Create a function `calculateTotal` that calculates the total cost based on the chosen size, crust, and toppings.
- Display the full order breakdown, including the number of toppings, price per topping, size price, crust price, and total cost.

size	Price		Crust type	Price
small	R50		Thin	R20
Medium	R70		Thick	R30
Large	R90		Stuffed	R40
Toppings will be calculated with a random price between R5 and R20				