MZUMBE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY (FST)

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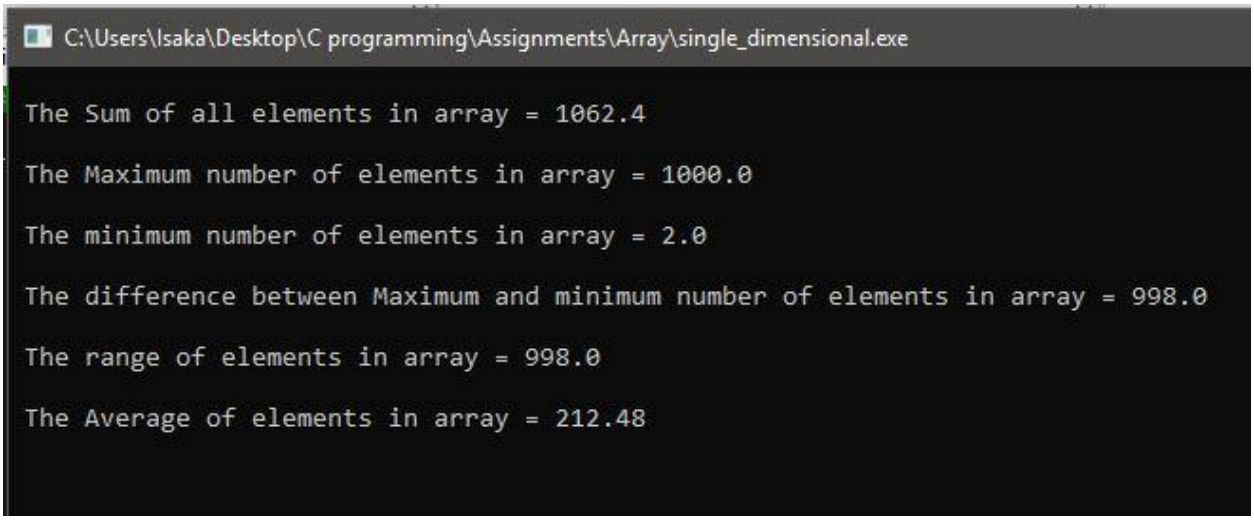
REG. NO	**:** 13211408/T.18
PROGRAMME	**:** DIT
SUBJECT NAME	**:** INTODUCTION TO HIGHER LEVEL PROGRAMMING
COURSE CODE	**:** ICT 051
NATURE OF TASK	**:** INDIVIDUAL ASSIGNMENT
LECTURER	**:** MR E. WAMBURA
DATE OF SUBMISSION	**:** 20 DECEMBER, 2018

SOURCE CODE

```
#include <stdio.h>
int main(){
	float balance[5] = {1000.0, 2.0, 3.4, 7.0, 50.0};
	float sum = 0, max = balance[0], min = balance[0], range, diff, avr;
	int n = 0;
	do{
		sum += balance[n];
		if(max < balance[n])
			max = balance[n];
		if(min > balance[n])
			min = balance[n];
		n++;
	}while(n < 5);
	diff = (max - min);
	range = (max - min);
	avr = (sum / 5);
	printf("\n The Sum of all elements in array = %.1f \n", sum);
	printf("\n The Maximum number of elements in array = %.1f \n", max);
	printf("\n The minimum number of elements in array = %.1f \n", min);
	printf("\n The difference between Maximum and minimum number of elements in array = %.1f \n", diff);
	printf("\n The range of elements in array = %.1f \n", range);
	printf("\n The Average of elements in array = %.2f \n", avr);
	getch();
	return 0;
}
```

OUTPUT


C:\Users\Isaka\Desktop\C programming\Assignments\Array\single_dimensional.exe
The Sum of all elements in array = 1062.4
The Maximum number of elements in array = 1000.0
The minimum number of elements in array = 2.0
The difference between Maximum and minimum number of elements in array = 998.0
The range of elements in array = 998.0
The Average of elements in array = 212.48