

## ОТЧЕТ О РАБОТЕ ПРОГРАММ C++ ПЕРВАЯ ДОМАШНЯЯ РАБОТА

### Задание 1

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/
checkingC++/"cproject
b1 (The first base of a trapezoid) = 1
b2 (The second base of a trapezoid) = 4
h (Trapezoid height) = 6
s = 15
macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/
checkingC++/"cproject
b1 (The first base of a trapezoid) = 0
b2 (The second base of a trapezoid) = 3
h (Trapezoid height) = 2
Error, base of trapezoid can not be 0 or less than 0, or a text!
```

### Задание 2

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod2
r (Radius) = -4
Error, radius can not be 0 or less than 0, or a text!
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod2
r (Radius) = 43
c = 270
s = 5805
```

### Задание 3

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod3
a (The first leg of the triangle) = 1
b (The second leg of the triangle) = 2
s = 1
c = 2
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod3
a (The first leg of the triangle) = -2
b (The second leg of the triangle) = 2
Error
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod3
a (The first leg of the triangle) = 0
b (The second leg of the triangle) = 2
s = 0
c = 2
```

### Задание 4

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod4
Enter the 4 digitals number = 1234
10
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod4
Enter the 4 digitals number = 34
Error!
```

### Задание 7

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod7
Enter a: 4
Enter b: 3
Enter c: 7
D < 0! No roots!
macbookair@Valentina-MacBook-Air checkingC++ % cd "/U
gC++/"prod7
Enter a: 2
Enter b: 5
Enter c: -24
x1 = 2.43273
x2 = -4.93273
```

### Задание 8

```
macbookair@Valentina-MacBook-Air checkingC++ %  
Lenght of the side of a triangle №1: 32  
Lenght of the side of a triangle №2: 43  
Lenght of the side of a triangle №3: 54  
Median a = 46.114  
Median b = 38.8298  
Median c = 26.5989
```

### Задание 9

```
macbookair@Valentina-MacBook-Air %  
Enter k-second: 0  
0 minutes and hours passed  
macbookair@Valentina-MacBook-Air %  
Enter k-second: 12  
0 minutes and hours passed  
macbookair@Valentina-MacBook-Air %  
Enter k-second: 2345  
Passed 39 minute(s)  
cd "/Users/macbookair/checki  
macbookair@Valentina-MacBook-Air %  
Enter k-second: 3456754  
Passed 960 hour(s)  
Passed 12 minute(s)
```

### Задание 10

```
macbookair@Valentina-MacBook-Air checkingC++ %  
Enter the 1st side of the triangle: 23  
Enter the 2nd side of the triangle: 21  
Enter the 3rd side of the triangle: 32  
Triangle is not right  
macbookair@Valentina-MacBook-Air checkingC++ %  
Enter the 1st side of the triangle: 21  
Enter the 2nd side of the triangle: 21  
Enter the 3rd side of the triangle: 28  
Right triangle
```

### Задание 11

```
macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++/  
Enter the purchase amount: 234  
Sorry! There are not any discounts on the purchases that cost less than 1000...  
macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++/  
Enter the purchase amount: 10000  
Amount with 10 percent discount: 9000%
```

### Задание 12

```
macbookair@Valentina-MacBook-Air checkingC++ %  
Your height (centimeters): 170  
Your weight (centimeters): 58  
It is better for you to eat more  
macbookair@Valentina-MacBook-Air checkingC++ %  
Your height (centimeters): 170  
Your weight (centimeters): 70  
You have an optimal weight!  
macbookair@Valentina-MacBook-Air checkingC++ %  
Your height (centimeters): 170  
Your weight (centimeters): 78  
It is better for you to go on a diet...
```

### Задание 13

```

● macbookair@Valentina-MacBook-Air
1st random number: 4
2nd random number: 7
Enter your answer: 23
Not correct!
● macbookair@Valentina-MacBook-Air
1st random number: 4
2nd random number: 7
Enter your answer: 28
Correct!
● macbookair@Valentina-MacBook-Air

```

#### Задание 14

```

● macbookair@Valentina-MacBook-Air che
Cost of the meeting is X
Lenght of the meeting: 2
Day of the meeting: 2
The final cost of the meeting: 2X
● macbookair@Valentina-MacBook-Air che
Cost of the meeting is X
Lenght of the meeting: 2
Day of the meeting: 7
The final cost of the meeting: 1.6X
● macbookair@Valentina-MacBook-Air che
Cost of the meeting is X
Lenght of the meeting: 2
Day of the meeting: 8
Error!
● macbookair@Valentina-MacBook-Air che

```

#### Задание 15

```

● macbookair@Valentina-MacBook-Air
The number of the month: 1
January
Winter
● macbookair@Valentina-MacBook-Air
The number of the month: 4
April
Spring
● macbookair@Valentina-MacBook-Air
The number of the month: 8
August
Summer
● macbookair@Valentina-MacBook-Air
The number of the month: 9
September
Autumn
● macbookair@Valentina-MacBook-Air
The number of the month: 12
December
Winter
● macbookair@Valentina-MacBook-Air

```

#### Задание 16

```

● macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbook
Enter the number: 123432
Not lucky number!
● macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbook
Enter the number: 12
Error! The number cannot contain more or less than 6 characters
● macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbook
Enter the number: 1234567654
Error! The number cannot contain more or less than 6 characters
● macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbook
Enter the number: 123321
Lucky number!
● macbookair@Valentina-MacBook-Air checkingC++ %

```

### Задание 17

```
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 1
1 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 21
21 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 12
12 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 22
22 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 76
76 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 15
15 kopeika
• macbookair@Valentina-MacBook-Air che
Enter the number of 'kopeiki': 79
79 kopeika
```

### Задание 18

```
• macbookair@Valentina-MacBook-Air
Enter the number: 1232
This number is NOT a palindrome!
• macbookair@Valentina-MacBook-Air
Enter the number: 1111
This number is a palindrome!
• macbookair@Valentina-MacBook-Air
Enter the number: 1221
This number is a palindrome!
```

### Задание 19

```
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter the three-digit number= 123
Enter one more (not only three-digit) number d= 32
The product of a 3 digits is 6
The NUMBER is GREATER than the product of the digits of a three-digit number!
The sum of a 3 digits is 6
The sum of the digits of a three-digit number IS NOT a multiple of 7!
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter the three-digit number= 12
Enter one more (not only three-digit) number d= 21
Error! The three-digit number should have 3 digits!
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter the three-digit number= 543
Enter one more (not only three-digit) number d= 21
The product of a 3 digits is 60
The PRODUCT of the digits of a three-digit number is GREATER than the number!
The sum of a 3 digits is 12
The sum of the digits of a three-digit number IS NOT a multiple of 7!
```

### Задание 20

```
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter 4 numbers: 21 -7 89 7
Error! The sides of a rectangle can not be less than 0!
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter 4 numbers: 21 2 3 1
A rectangle with sides ab CAN NOT BE placed in a rectangle with sides cd!
• macbookair@Valentina-MacBook-Air checkingC++ % cd "/Users/macbookair/checkingC++
Enter 4 numbers: 21 32 21 32
A rectangle with sides ab CAN BE placed in a rectangle with sides cd!
```