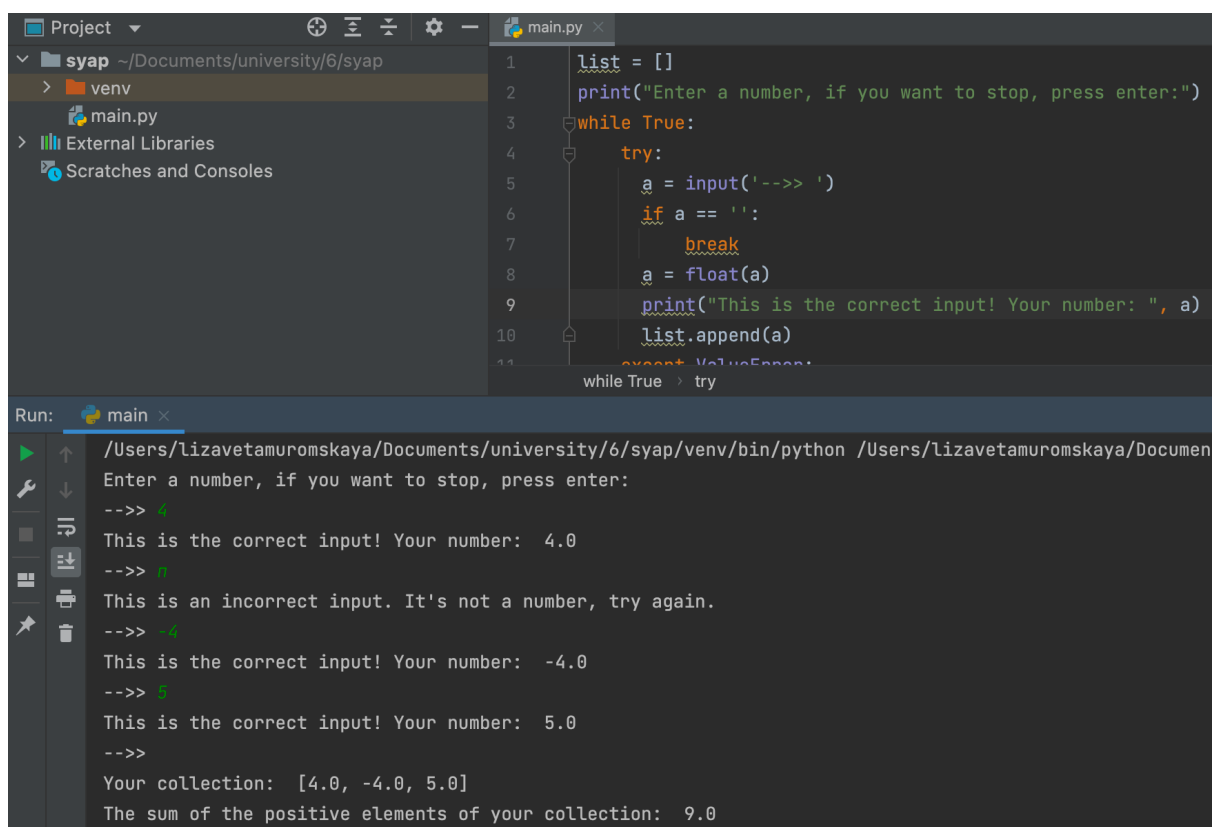


Задание: Найти сумму всех положительных чисел в коллекции

```
main.py x
1  list = []
2  print("Enter a number, if you want to stop, press enter:")
3  while True:
4      try:
5          a = input('--> ')
6          if a == '':
7              break
8          a = float(a)
9          print("This is the correct input! Your number: ", a)
10         list.append(a)
11     except ValueError:
12         print("This is an incorrect input. It's not a number, try again.")
13     print("Your collection: ", list)
14
15     sum = 0
16     for number in list:
17         if number > 0:
18             sum += number
19     print("The sum of the positive elements of your collection: ", sum)
20
```

Рис. 1 Код программы на Python



The screenshot shows an IDE with a project named 'syap' and a file 'main.py'. The code is the same as in Figure 1. The 'Run' console at the bottom shows the following output:

```
Run: main x
/Users/lizavetamuromskaya/Documents/university/6/syap/venv/bin/python /Users/lizavetamuromskaya/Documen
Enter a number, if you want to stop, press enter:
--> 4
This is the correct input! Your number: 4.0
--> 
This is an incorrect input. It's not a number, try again.
--> -4
This is the correct input! Your number: -4.0
--> 5
This is the correct input! Your number: 5.0
--> 
Your collection: [4.0, -4.0, 5.0]
The sum of the positive elements of your collection: 9.0
```

Рис. 2 Результат работы программы на Python

```
main.cpp
1  #include <iostream>
2  using namespace std;
3  int InpInt(){
4      int n;
5      while (true) {
6          cin >> n;
7          if (cin.get() == '\n') return n;
8          else {
9              cin.clear();
10             cin.ignore(256, '\n');
11             cout << "Error! Try again" << endl;
12         }
13     }
14 }
15 int main()
16 {
17     int n;
18     cout << "Enter the size of the array: ";
19     n = InpInt();
20     double sum = 0;
21     double arr[n];
22     for(int i=0; i<n; i++){
23         cout << "Enter values: ";
24         try{
25             double a;
26             do
27             {
28                 if(!cin)
29                 {
30                     cin.clear();
31                     while (cin.get() != '\n');
32                     cout<<"Error! try again\n";
33                 }
34                 cin>>a;
35             }while(!cin);
36             arr[i] = a;
37         }
38         catch(...)
39         {
40             cout << "Unknown error! \n";
41         }
42         if (arr[i]>0){
43             sum+=arr[i];
44         }
45     }
46     cout << " The sum of positive numbers: " << sum;
47     return 0;
48 }
49
```

Рис. 3 Код программы на C++

```
main.cpp
1  #include <iostream>
2  using namespace std;
3
4  int InpInt(){
5      int n;
6      while (true) {
7          cin >> n;
8          if (cin.get() == '\n') return n;
9          else {
10             cin.clear();
11             cin.ignore(256, '\n');
12             cout << "Error! Try again" << endl;
13         }
14     }
15 }
16
17 int main()
18 {
19     int n;
20     cout << "Enter the size of the array: ";
21     n = InpInt();
22
23     Enter values: -5
24     Enter values: 3
25     Enter values: n
26     Error! try again
27     4
28     The sum of positive numbers: 7
```

Рис.4 Результат работы программы на C++