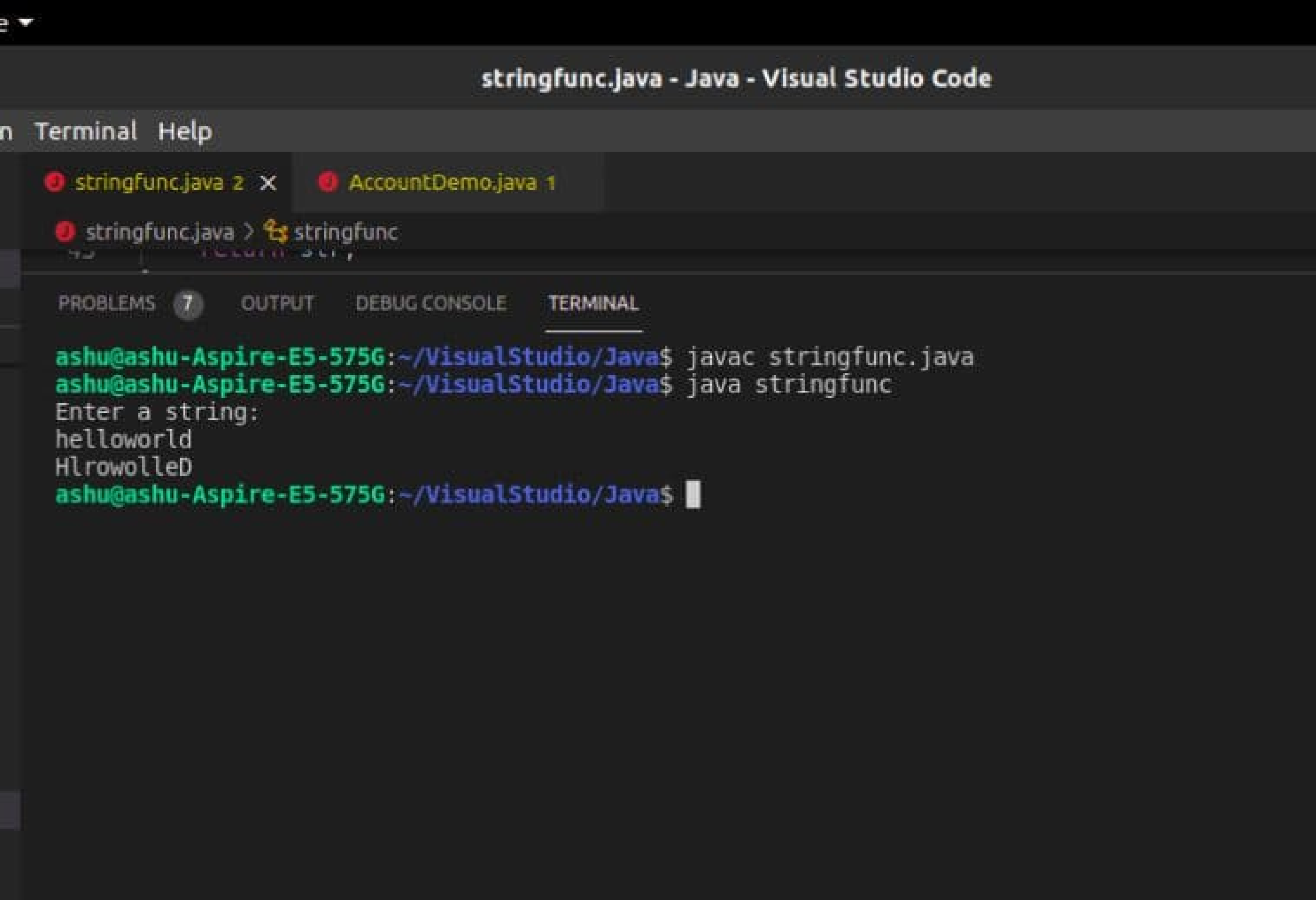
```java
import java.util.*;

public class stringfunc {

    static String FirstAndLast(String str)
    {

        char[] ch = str.toCharArray();
        for (int i = 0; i < ch.length; i++) {
            int k = i;
            while (i < ch.length && ch[i] != ' ')
                i++;

            ch[k] = (char)(ch[k] >= 'a' && ch[k] <= 'z'
                           ? ((int)ch[k] - 32)
                           : (int)ch[k]);
            ch[i - 1] = (char)(ch[i - 1] >= 'a' && ch[i - 1] <= 'z'
                               ? ((int)ch[i - 1] - 32)
                               : (int)ch[i - 1]);
        }

        return new String(ch);
    }

    static String reverseWord(String str)
{
    int len = str.length();

    int i = 1;
    int j = str.length() - 2;

    char[] strchar = str.toCharArray();
```

```
24
25      static String reverseWord(String str)
26  {
27      int len = str.length();
28
29      int i = 1;
30      int j = str.length() - 2;
31
32      char[] strchar = str.toCharArray();
33
34      while (i < j)
35      {
36
37          char temp = strchar[i];
38          strchar[i] = strchar[j];
39          strchar[j] = temp;
40          i++;
41          j--;
42      }
43
44      str = new String(strchar);
45      return str;
46  }
47
48  static void reverseWords(String str)
49  {
50      String[] tok = str.split("\\s");
51
52      for(String w:tok)
53      {
54          System.out.print(reverseWord(w) + " \n");
```

```
46  }
47
48  static void reverseWords(String str)
49  {
50      String[] tok = str.split("\\s");
51
52      for(String w:tok)
53      {
54          System.out.print(reverseWord(w) + " \n");
55      }
56  }
57
        Run | Debug
58      public static void main(String[] args) {
59
60          Scanner sc= new Scanner(System.in);
61          System.out.println("Enter a string: ");
62          String str= sc.nextLine();
63          String str2 = FirstAndLast(str);
64          reverseWords(str2);
65
66      }
67
68  }
69
70
```


stringfunc.java - Java - Visual Studio Code
n Terminal Help
stringfunc.java 2
AccountDemo.java 1
stringfunc.java > stringfunc
PROBLEMS 7
OUTPUT
DEBUG CONSOLE
TERMINAL
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$ javac stringfunc.java
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$ java stringfunc
Enter a string:
helloworld
HlrowolleD
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$

AccountDemo.java - Java - Visual Studio Code

un Terminal Help

stringfunc.java 2 | AccountDemo.java 1 ×

AccountDemo.java > AccountDemo

```java
import java.io.*;
import java.lang.*;
class LessBalanceException extends Exception
{
 LessBalanceException(double amt)
 {
 System.out.println("Withdrawing "+amt+" is invlaid");
 }
}
class Account
{
 static int count=0;
 int accno;
 double bal;
 String name;
 Account(double bal,String n,int accno)
 {
  System.out.println("\nNew Account opened....!!");
  this.bal=bal;
  count++;
  System.out.println("Account Holder Name : " + n);
  name=n;
  System.out.println("Your Account Number is : "+accno);
  this.accno=accno;
  System.out.println("Total number of accounts : "+count);

 }
 void deposit(double amt)
```

```
24      this.accno=accno;
25      System.out.println("Total number of accounts : "+count);
26
27    }
28    void deposit(double amt)
29    {
30     System.out.println("Availabe Balance : "+bal);
31     bal=bal+amt;
32     System.out.println("Rs. : "+amt+" /- Created");
33     System.out.println("Balance : "+bal);
34    }
35    void withdraw(double amt) throws LessBalanceException
36    {
37     System.out.println("\nAvailabe Balance : "+bal);
38     bal-=amt;
39     if(bal<500)
40     {
41      bal+=amt;
42      throw new LessBalanceException(amt);
43     }
44     System.out.println("Rs. : "+amt+ "/-Debited");
45     System.out.println("Balacne : "+bal);
46    }
47    void balance()
48    {
49     System.out.println("\nCustomer information");
50     System.out.println("=========================================");
51     System.out.println("Customer Name : "+name);
```

```
47    void balance()
48    {
49     System.out.println("\nCustomer information");
50     System.out.println("=============================================");
51     System.out.println("Customer Name : "+name);
52     System.out.println("Account Number : "+accno);
53     System.out.println("Balance : "+bal);
54    }
55   }
56   class AccountDemo
57   {
58    static int i=0;
       Run | Debug
59    public static void main(String argv[]) throws IOException
60    {
61     Account ob[]=new Account[10];
62     BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
63     double amt;
64     String name;
65     int ch,accno,k;
66     boolean t=false;
67     while(true)
68     {
69      System.out.println("\n*** Bank Transaction ***");
70      System.out.println("1.Open new Account\n2.Deposit");
71      System.out.println("3.Withdraw\n4.Balance\n5.Exit");
72      System.out.print("Enter your choice : ");
```



```
HlrowolleD
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$
```

AccountDemo.java > AccountDemo

```
70      System.out.println("1.Open new Account\n2.Deposit");
71      System.out.println("3.Withdraw\n4.Balance\n5.Exit");
72      System.out.print("Enter your choice : ");
73      ch=Integer.parseInt(br.readLine());
74      switch(ch)
75      {
76      case 1:
77      System.out.println("Opening New Account : ");
78      System.out.print("Enter your name : ");
79      name=br.readLine();
80      System.out.print("\nEnter Account Number : ");
81      accno=Integer.parseInt(br.readLine());
82      System.out.print("\nEnter initial amount(to be >=500) : ");
83      amt=Double.parseDouble(br.readLine());
84      if(amt<500)
85      System.out.println("You cannot create an account with less than Rs.500/-");
86      else
87      {
88       ob[i]=new Account(amt,name,accno);
89       i++;
90      }
91      break;
92
93      case 2:
94      System.out.print("\nEnter Account number : ");
95      accno=Integer.parseInt(br.readLine());
96      for(k=0;k<i;k++)
```

```
92
93      case 2:
94      System.out.print("\nEnter Account number : ");
95      accno=Integer.parseInt(br.readLine());
96      for(k=0;k<i;k++)
97      if(accno==ob[k].accno)
98      {
99       t=true;
100      break;
101     }
102
103     if(t)
104     {
105      System.out.print("\nEnter the Amount for Deposit : ");
106      amt=Double.parseDouble(br.readLine());
107      ob[k].deposit(amt);
108     }
109     else
110     System.out.println("Invalid Account Number...!!!");
111     t=false;
112     break;
113
114     case 3:
115     System.out.print("\nEnter Account number : ");
116     accno=Integer.parseInt(br.readLine());
117     for(k=0;k<i;k++)
118     if(accno==ob[k].accno)
```

```
114     case 3:
115     System.out.print("\nEnter Account number : ");
116     accno=Integer.parseInt(br.readLine());
117     for(k=0;k<i;k++)
118     if(accno==ob[k].accno)
119     {
120      t=true;
121      break;
122     }
123
124     if(t)
125     {
126      System.out.print("\nEnter the Amount for Withdraw : ");
127      amt=Double.parseDouble(br.readLine());
128      try
129      {
130       ob[k].withdraw(amt);
131      }
132      catch(LessBalanceException e)
133      {}
134     }
135     else
136     System.out.println("Invalid Account Number...!!!");
137     t=false;
138     break;
139
140     case 4:
141     System.out.print("\nEnter Account number : ");
```

```
134     }
135     else
136     System.out.println("Invalid Account Number...!!!");
137     t=false;
138     break;
139
140     case 4:
141     System.out.print("\nEnter Account number : ");
142     accno=Integer.parseInt(br.readLine());
143     for(k=0;k<i;k++)
144     if(accno==ob[k].accno)
145     {
146      t=true;
147      break;
148     }
149
150     if(t)
151     {
152      //System.out.println(accno +" asdfsdf " +ob[k].accno);
153      ob[k].balance();
154     }
155     else
156     System.out.println("Invalid Account Number...!!!");
157     t=false;
158     break;
159
160     case 5:
```

```
142     accno=Integer.parseInt(br.readLine());
143     for(k=0;k<i;k++)
144     if(accno==ob[k].accno)
145     {
146      t=true;
147      break;
148     }
149
150     if(t)
151     {
152      //System.out.println(accno +" asdfsdf " +ob[k].accno);
153      ob[k].balance();
154     }
155     else
156     System.out.println("Invalid Account Number...!!!");
157     t=false;
158     break;
159
160     case 5:
161     System.exit(1);
162     default: System.out.println("Invalid Choice !!!");
163     }
164   }
165  }
166 }
```

AccountDemo.java - Java - Visual Studio Code

Terminal Help

PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL

```
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$ javac AccountDemo.java
ashu@ashu-Aspire-E5-575G:~/VisualStudio/Java$ java AccountDemo

*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 1
Opening New Account :
Enter your name : Prajwal

Enter Account Number : 12345

Enter initial amount(to be >=500) : 1000

New Account opened....!!
Account Holder Name : Prajwal
Your Account Number is : 12345
Total number of accounts : 1

*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 2

Enter Account number : 12345

Enter the Amount for Deposit : 500
Availabe Balance : 1000.0
Rs. : 500.0 /- Created
Balance : 1500.0

*** Bank Transaction ***
```

Ln 166, Col

```
*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 2

Enter Account number : 12345

Enter the Amount for Deposit : 500
Availabe Balance : 1000.0
Rs. : 500.0 /- Created
Balance : 1500.0

*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 4

Enter Account number : 12345

Customer information
==========================================================
Customer Name : Prajwal
Account Number : 12345
Balance : 1500.0

*** Bank Transaction ***
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
```