

```
136 // 15) PadLeft PadLeft Methods
137 var str = " x repeated";
138 char pad = '.';
139 Console.WriteLine(str.PadLeft(16, pad));
140 Console.WriteLine(str.PadRight(15, pad));
141 }
142 }
143 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
..... x repeated
x repeated.....
```

```
129
130 // 14) Insert method
131 var str = "My name is A";
132 Console.WriteLine(str);
133 str = str.Insert(str.Length,"qzhol");
134 Console.WriteLine(str);
135
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
My name is A
My name is Aqzhol
```

```
121
122 // 13) Copy method
123 var a = "hello world";
124 var b = "Say hi";
125 b = System.String.Copy(a);
126 a = "Do not Say hi";
127 Console.WriteLine($"a : {a}");
128 Console.WriteLine($"b : {b}");
129
130 // 14) Insert method
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

```
aggressivehostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
Program.cs(125,17): warning CS0618: 'string.Copy(string)' is obsolete: '
fwlink/?linkid=2084035 for alternatives.' [/Users/aggressivehostsgmail.
a : Do not Say hi
b : hello world
aggressivehostsgmail.com@MacBook-Air-Akzol c#_strings %
```

```
106
107 // 12) TryParse method
108 String[] values = {"123", "66", "88", "55", "aqzhol"};
109
110 bool is_even(int num){
111     return num % 2 == 0;
112 }
113
114 foreach(var v in values){
115     int num;
116     bool success = Int32.TryParse(v, out num);
117     if(success && is_even(num)){
118         Console.WriteLine(num);
119     }
120 }
121
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
66
88
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings %
```

```

90
91 // 11) Merge anonymous type using local function
92 string get_info(String s, int s2){
93     try{
94         return $"Student {s} {s2} years old";
95     }catch(Exception e){
96         return Convert.ToString(e);
97     }
98 }
99
100 var student = new {name = "Aqzhol", age = 20};
101 var teacher = new {name = "GGG", age = 34};
102 var merged = Tuple.Create(student, teacher);
103
104 Console.WriteLine(get_info(merged.Item2.name, merged.Item2.age));
105 Console.WriteLine(get_info(merged.Item1.name, merged.Item1.age));
106

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

aggressiveghost@gmail.com MacBook-Air-Akzol c#_strings % dotnet run
Student GGG 34 years old
Student Aqzhol 20 years old

```

85			<code>// 10) Parse date and time strings</code>
86			<code>String date_string = "March 8, 2010";</code>
87			<code>var date = DateTime.Parse(date_string);</code>
88			<code>Console.WriteLine(date);</code>
89			
90			

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
3/8/2010 12:00:00 AM
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % █
```

```
75 // 9) Search strings
76 bool is_contains(String s1, String s2){
77     return s1.Contains(s2, System.StringComparison.CurrentCultureIgnoreCase);
78 }
79 var str = "Does a string contain text?";
80 if (is_contains(str, "CONTAIN")){
81     Console.WriteLine($"'{str}' contains 'CONTAIN'");
82 }
83
84
85 // 10) Parse date and time strings
```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
'Does a string contain text?' contains 'CONTAIN'
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings %
```

```
66
67 // 8) String.Split
68 var str = "hello my name is Aqzhol";
69 Console.WriteLine(str);
70 String[] list = str.Split(" ");
71 foreach(var w in list){
72     Console.WriteLine(w);
73 }
74
75 // 9) Search strings
76 // bool is contains(String c1, String c2) }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghost@gmail.com@MacBook-Air-Akzol c#_strings % dotnet run
hello my name is Aqzhol
hello
my
name
is
Aqzhol
```



```
47 // 7) Concatenate multiple strings
48 String str = "Concatenation is the process of appending one string to the end of another string." +
49 "You concatenate strings by using the + operator." +
50 "For string literals and string constants, concatenation occurs at compile time;" +
51 "no run-time concatenation occurs. For string variables," +
52 "concatenation occurs only at run time.";
53 Console.WriteLine(str);
54
55 String[] words = { "Hello", "world", "we", "are", "studying", "c#", "programming", "language", "csse", "groups"};
56
57 var without_space = String.Concat(words);
58 Console.WriteLine($"without_space : {without_space}");
59
60 var with_space = String.Join(" ", words);
61 System.Console.WriteLine($"with_space : {with_space}");
62
63 var with_start = String.Join(" * ", words);
64 System.Console.WriteLine($"with_start : {with_start}");
65
66
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: zsh + [ ] [X] [Y]

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
Concatenation is the process of appending one string to the end of another string.You concatenate strings by using the + operator.For string literals and st
ring constants, concatenation occurs at compile time; no run-time concatenation occurs. For string variables,concatenation occurs only at run time.
without_space : Helloworldwearestudyingc#programminglanguagecssegroups
with_space : Hello world we are studying c# programming language csse groups
with_start : Hello * world * we * are * studying * c# * programming * language * csse * groups
```

```
39
40 // 6) Remove text
41 String str = "Remove a substring from the middle of the string.";
42 int index = str.IndexOf("the");
43 String removed = str.Remove(index, "the".Length);
44 Console.WriteLine(str);
45 Console.WriteLine(removed);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
aggressiveghost@gmail.com MacBook-Air-Akzol c#_strings % dotnet run
Remove a substring from the middle of the string.
Remove a substring from middle of the string.
```

```
34 // 5) Trim white space
35 String str = " Hello IITU university ";
36 Console.WriteLine($"{str}");
37 Console.WriteLine($"{str.TrimStart()}");
38 Console.WriteLine($"{str.TrimEnd()}");
39
40 // 6) Remove text
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
Hello IITU university
Hello IITU university
Hello IITU university
```

```
27  
28 // 4) StartsWith and EndsWith  
29 String str = "Almaty is the best city";  
30 Console.WriteLine(str.StartsWith("Almaty"));  
31 Console.WriteLine(str.StartsWith("is"));  
32 Console.WriteLine(str.EndsWith("city"));  
33
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghost@gmail.com@MacBook-Air-Akzol c#_strings % dotnet run  
True  
False  
True  
aggressiveghost@gmail.com@MacBook-Air-Akzol c#_strings %
```

```
20 // 3) Substrings
21 String str = "I love C#";
22 Console.WriteLine(str.Substring(2,7));
23 Console.WriteLine($"{ str.IndexOf("C")} is index of C '{str}'");
24 Console.WriteLine(str.Replace("C#", "python"));
25 Console.WriteLine($"String in lowercase : {str.ToLower()}");
26 Console.WriteLine($"String in uppercase : {str.ToUpper()}");
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
love C#
7 is index of C 'I love C#'
I love python
String in lowercase : i love c#
String in uppercase : I LOVE C#
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings %
```

```
14 // 2) String Interpolation
15 var info = (firstname : "Aqzhol", lastname : "Baqatay", born : 2001, city : "Almaty");
16 Console.WriteLine("My name is {0} {1}", info.firstname, info.lastname);
17 Console.WriteLine("I was born in {0}, {1}", info.born, info.city);
18
19
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1:

```
aggressiveghost@gmail.com MacBook-Air-Akzol c#_strings % dotnet run
My name is Aqzhol Baqatay
I was born in 2001, Almaty
aggressiveghost@gmail.com MacBook-Air-Akzol c#_strings %
```

9			<code>// 1) String constructor</code>
10			<code>char[] letters = { '1', '2', '3', 'h', 'e', 'l', 'l', 'o' };</code>
11			<code>string str = new string(letters);</code>
12			<code>Console.WriteLine(str);</code>
13			

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings % dotnet run
123hello
aggressiveghostsgmail.com@MacBook-Air-Akzol c#_strings %
```