```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.CompilerServices;
 5 using System.Text;
 6 using System.Threading.Tasks;
8 namespace AssignPractice
9 {
10
       class Practice
11
12
           //datatypes
13
14
           //integer
            int a = 23;
15
16
            int b = 16;
17
18
            //float
19
            float m = 2.365f;
20
           float x = 2.0365f;
21
22
            //decimal
23
           decimal number = 2.45698m;
24
25
            //boolean
26
           bool p = false;
27
            bool q = true;
28
29
            //string
30
            string test = "test";
31
            string samarth = "samarth";
32
33
            //character
34
            char A;
35
            char B;
36
37
            static void Main()
38
39
                // Variables
                int a = 45;
40
41
                int b = 79;
42
43
                //operators
44
45
                //Arithmatic operators
                Console.WriteLine("Arithmatic operators");
46
47
                Console.WriteLine($"Addition :{a + b}");
                Console.WriteLine($"Substraction :{a - b}");
48
49
                Console.WriteLine($"Multiplication :{a * b}");
```

```
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```

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2
```

```
50
                Console.WriteLine($"Division : {a / b}");
51
                Console.WriteLine($"Mod :{a % b}");
52
53
                //Comparision operators /relational operators
54
                Console.WriteLine("Comparision operators");
                Console.WriteLine($"a==b :{a == b}");
55
                Console.WriteLine($"a!=b :{a != b}");
56
57
                Console.WriteLine($"a>b :{a > b}");
                Console.WriteLine($"a<b :{a < b}");</pre>
58
                Console.WriteLine($"a>=b :{a >= b}");
59
                Console.WriteLine($"a<=b :{a <= b}");</pre>
60
61
62
                //logical operators
63
                bool x = true;
64
                bool y = false;
65
                Console.WriteLine("Logical operators");
                Console.WriteLine($"x&&y : {x && y}");
66
                Console.WriteLine($"x||y : {x || y}");
67
68
                Console.WriteLine($"!x : {!x}");
69
70
71
72
                //controlstatement
73
74
                //if statement
75
                int number = 16;
76
77
                if (number == 19)
78
79
80
                    Console.WriteLine("The number is positive");
81
                }
82
                //if else statement
83
84
85
                string name = "manjiri";
86
87
                if (name == "manjiri2")
88
                {
89
                    Console.WriteLine(" This is Active name");
                }
90
                else
91
92
                {
93
                    Console.WriteLine("This is invalid name");
94
                }
95
                //if else if else statement
96
97
98
                int numberrow = 45;
```

141

142

143

144 145

146

147

```
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                                                                                    3
99
                 if (numberrow > 0)
100
                 {
101
                     Console.WriteLine("The number is positive");
102
                 else if (numberrow < 0)</pre>
103
104
                     Console.WriteLine("The number is negative");
105
106
                 else if (numberrow == 0)
107
108
                     Console.WriteLine("The number is zero");
109
110
111
112
                 else
113
                 {
114
                     Console.WriteLine("The number is below 100");
115
                 }
116
117
                 // switch statement
118
                 int Month = 8;
119
120
                 switch (Month)
121
122
                     case 1:
123
                         Console.WriteLine("January");
124
                         break;
125
                     case 2:
126
                         Console.WriteLine("February");
127
128
                     case 3:
129
                         Console.WriteLine("March");
130
                         break;
131
                     case 4:
132
                         Console.WriteLine("April");
133
                         break;
134
                     case 5:
                         Console.WriteLine("MAy");
135
136
                         break;
137
                     case 6:
                         Console.WriteLine("June");
138
139
                         break;
                     case 7:
140
```

Console.WriteLine("July");

Console.WriteLine("August");

Console.WriteLine("September");

break;

break;

case 8:

case 9:

```
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                                                                                    4
148
                          break;
149
                     case 10:
150
                         Console.WriteLine("October");
151
                         break;
152
                     case 11:
                          Console.WriteLine("November");
153
154
                         break;
155
                     case 12:
                          Console.WriteLine("December");
156
157
                         break;
                     default:
158
                         Console.WriteLine("Invalid month");
159
160
                         break;
161
                 }
162
163
                 //Looping statement
164
165
                 //for loop
166
                 Console.WriteLine("Using for loop");
                 for (int i = 1; i < 10; i++)</pre>
167
168
169
                     Console.WriteLine($"The Methodology {i} is checked");
170
                 }
171
172
                 //while loop
173
                 Console.WriteLine("Using while loop");
                 int m = 1;
174
175
                 while (m < 10)</pre>
176
                 {
                     Console.WriteLine($"The methodology {m} is checked");
177
178
                     m++;
179
                 }
180
                 //do while loop
181
                 Console.WriteLine($"Using do while loop");
182
                 int s = 2;
183
                 do
184
185
                 {
                     Console.WriteLine($"The methodology{s} is checked");
186
187
                     s++;
188
                 while (s <= 10);</pre>
189
190
191
192
193
                 //foreach statement
194
                 string[] fruits = { "Lemon", "orange", "banana", "Apple",
195
                   "Grapes", "Cherry" };
```

```
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                                                                                    5
                 foreach (string fruit in fruits)
196
197
                 {
198
                     Console.WriteLine("The fruit name is : ");
199
                 }
200
201
                 //continue
202
                 Console.WriteLine("continue statement");
203
204
                 Console.WriteLine("Enter a number : 20");
                 for(int i = 1; i <= 10; i++)</pre>
205
206
                     if (i % 5==0)
207
208
209
                          continue;
210
211
                     Console.WriteLine(i);
212
213
                 }
214
215
216
                 //goto statement
217
                 int age;
218
             startloop:
                 Console.WriteLine("enter a age between (0-120)");
219
220
                 age = Convert.ToInt32(Console.ReadLine());
221
                 if (age>0 || age< 120)</pre>
222
                 {
223
                     Console.WriteLine("The valid age is : ");
224
                     goto startloop;
225
226
                 Console.WriteLine($"The valid age is : {age}");
227
228
229
230
231
232
233
234
235
236
237
238
             }
239
         }
240
241 }
```