

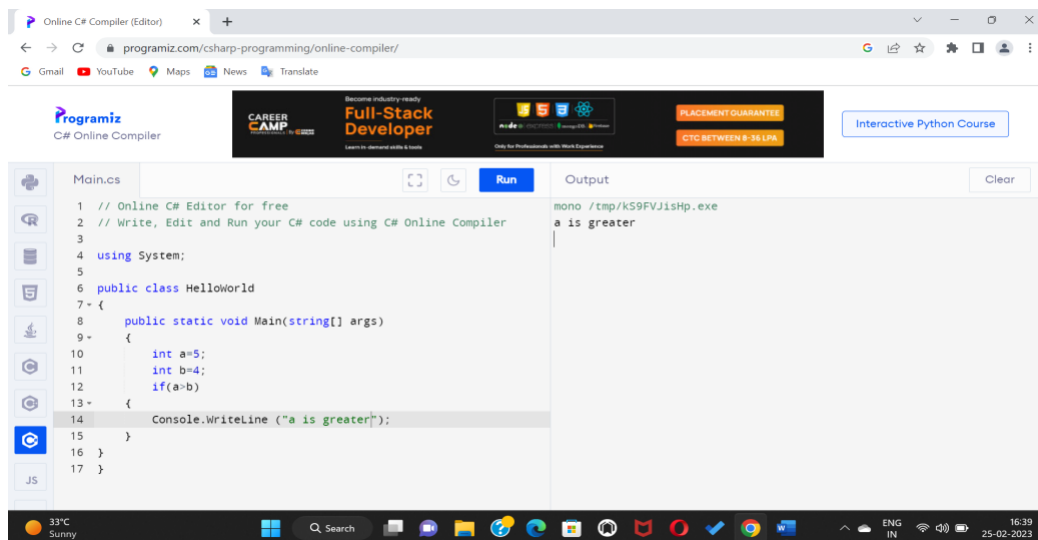
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Decision making statements:

Simple if:



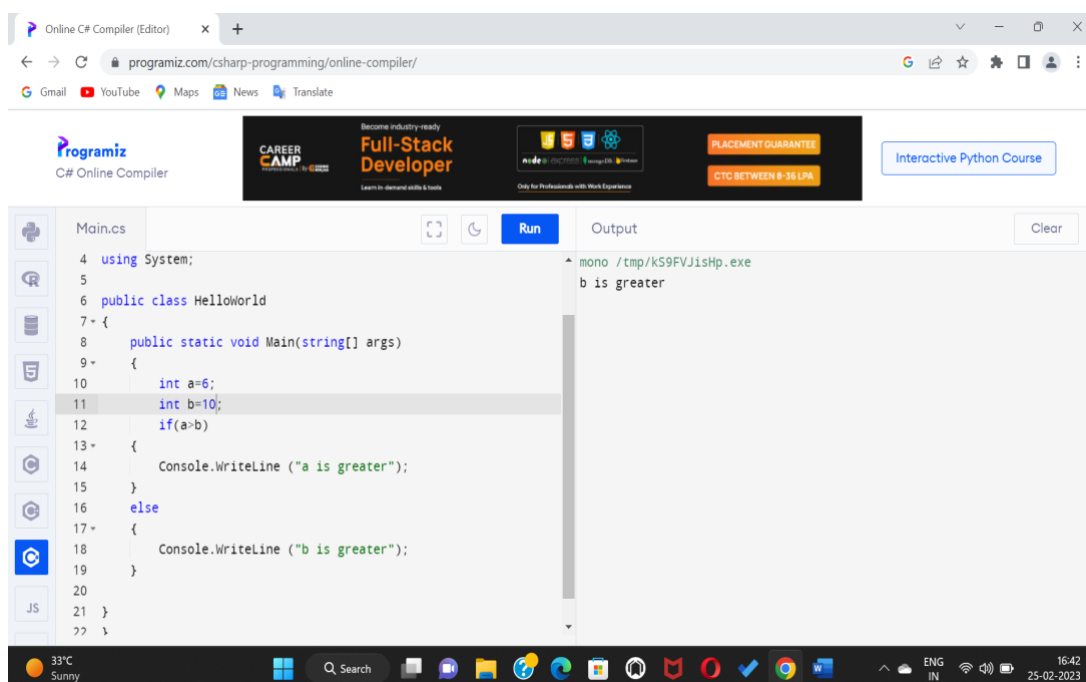
The screenshot shows the Programiz C# Online Compiler interface. The code in the editor is as follows:

```
1 // Online C# Editor for free
2 // Write, Edit and Run your C# code using C# Online Compiler
3
4 using System;
5
6 public class HelloWorld
7 {
8     public static void Main(string[] args)
9     {
10         int a=5;
11         int b=4;
12         if(a>b)
13         {
14             Console.WriteLine ("a is greater");
15         }
16     }
17 }
```

The output window shows the result of the execution:

```
mono /tmp/KS9FVJisHp.exe
a is greater
```

If else: in



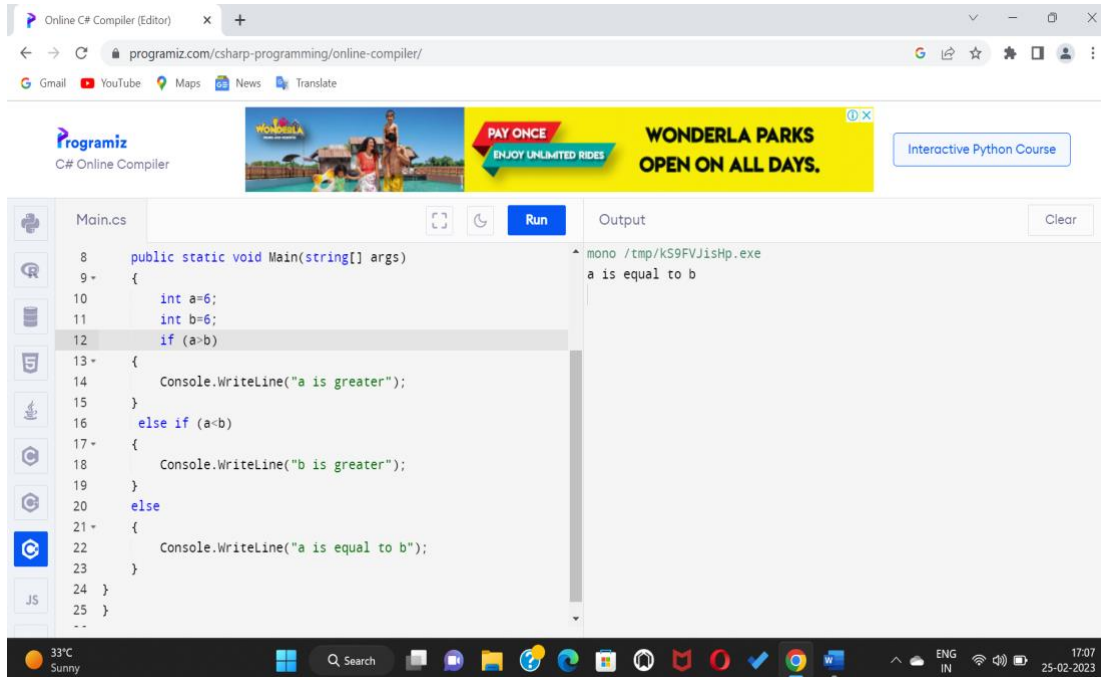
The screenshot shows the Programiz C# Online Compiler interface. The code in the editor is as follows:

```
4 using System;
5
6 public class HelloWorld
7 {
8     public static void Main(string[] args)
9     {
10         int a=6;
11         int b=10;
12         if(a>b)
13         {
14             Console.WriteLine ("a is greater");
15         }
16         else
17         {
18             Console.WriteLine ("b is greater");
19         }
20     }
21 }
```

The output window shows the result of the execution:

```
mono /tmp/KS9FVJisHp.exe
b is greater
```

if else if ladder:



The screenshot shows the Programiz Online C# Compiler interface. The code in Main.cs is as follows:

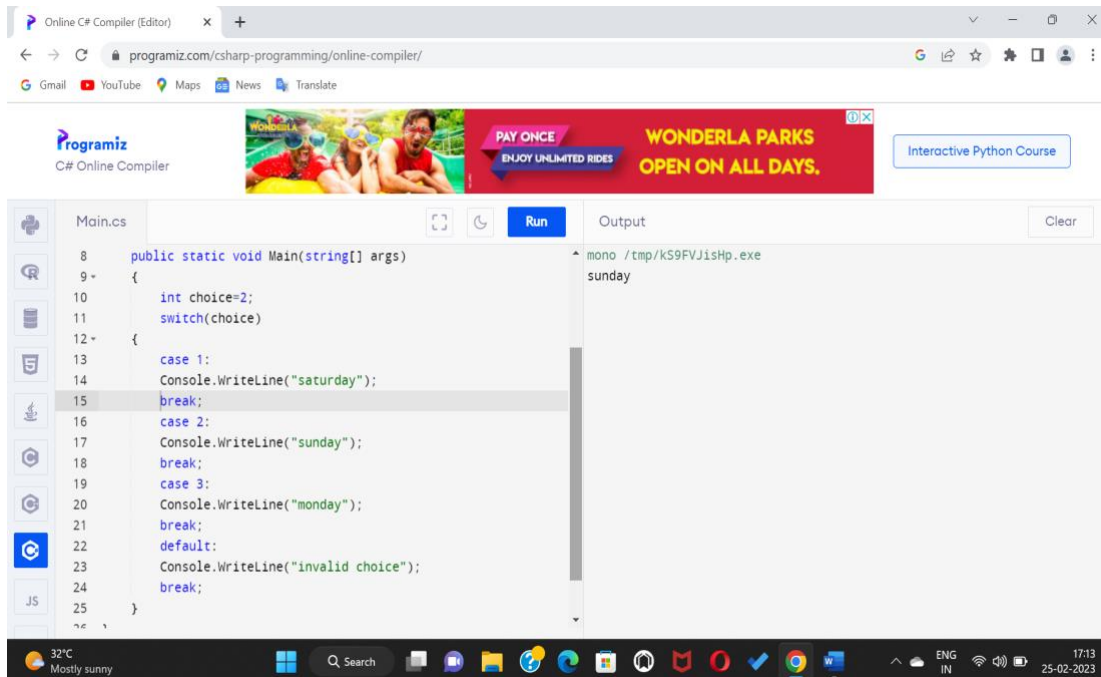
```
8 public static void Main(string[] args)
9 {
10     int a=6;
11     int b=6;
12     if (a>b)
13     {
14         Console.WriteLine("a is greater");
15     }
16     else if (a<b)
17     {
18         Console.WriteLine("b is greater");
19     }
20     else
21     {
22         Console.WriteLine("a is equal to b");
23     }
24 }
25 }
```

The output of the program is:

```
mono /tmp/kS9FVJisHp.exe
a is equal to b
```

The browser's taskbar at the bottom shows a temperature of 33°C, sunny weather, and the date 25-02-2023 at 17:07.

Switch case:



The screenshot shows the Programiz Online C# Compiler interface. The code in Main.cs is as follows:

```
8 public static void Main(string[] args)
9 {
10     int choice=2;
11     switch(choice)
12     {
13         case 1:
14             Console.WriteLine("saturday");
15             break;
16         case 2:
17             Console.WriteLine("sunday");
18             break;
19         case 3:
20             Console.WriteLine("monday");
21             break;
22         default:
23             Console.WriteLine("invalid choice");
24             break;
25     }
26 }
```

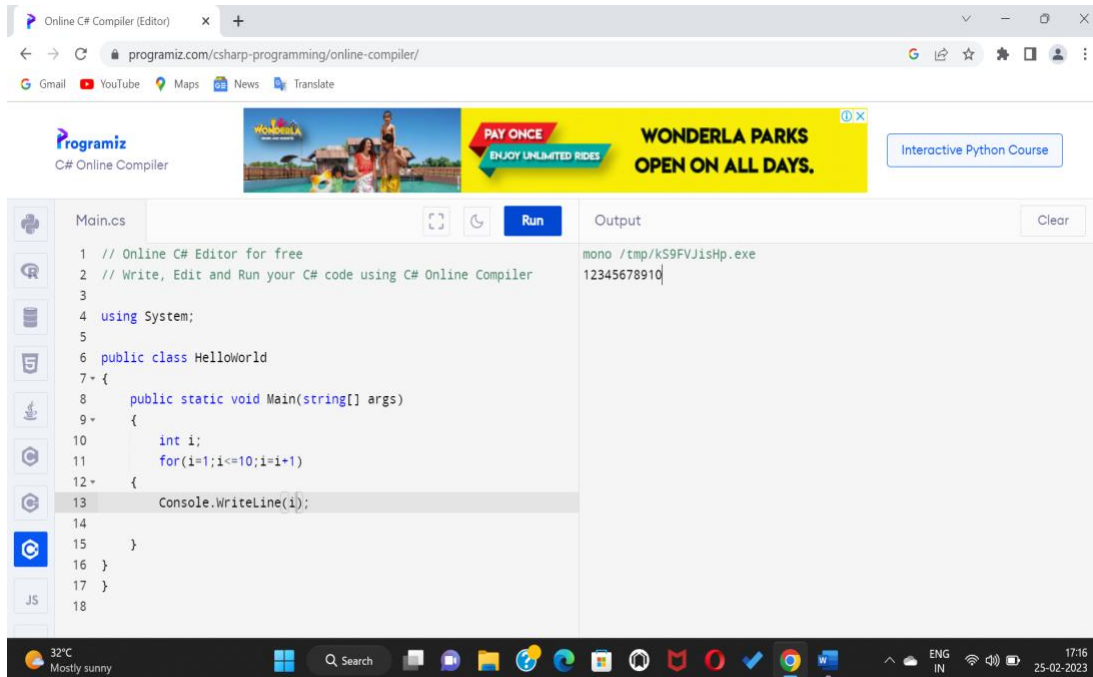
The output of the program is:

```
mono /tmp/kS9FVJisHp.exe
sunday
```

The browser's taskbar at the bottom shows a temperature of 32°C, mostly sunny weather, and the date 25-02-2023 at 17:13.

Looping statements:

For loop:

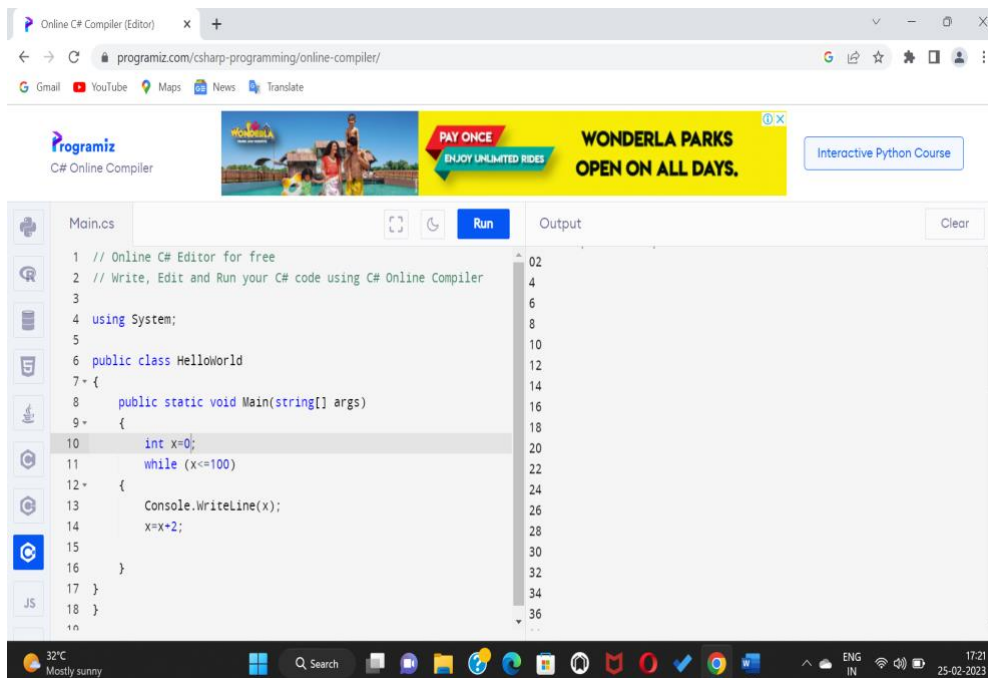


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```
1 // Online C# Editor for free
2 // Write, Edit and Run your C# code using C# Online Compiler
3
4 using System;
5
6 public class HelloWorld
7 {
8     public static void Main(string[] args)
9     {
10         int i;
11         for(i=1;i<=10;i=i+1)
12         {
13             Console.WriteLine(i);
14         }
15     }
16 }
17
18
```

The code is executed, and the output window displays the numbers 1 through 10, each on a new line.

While loop:

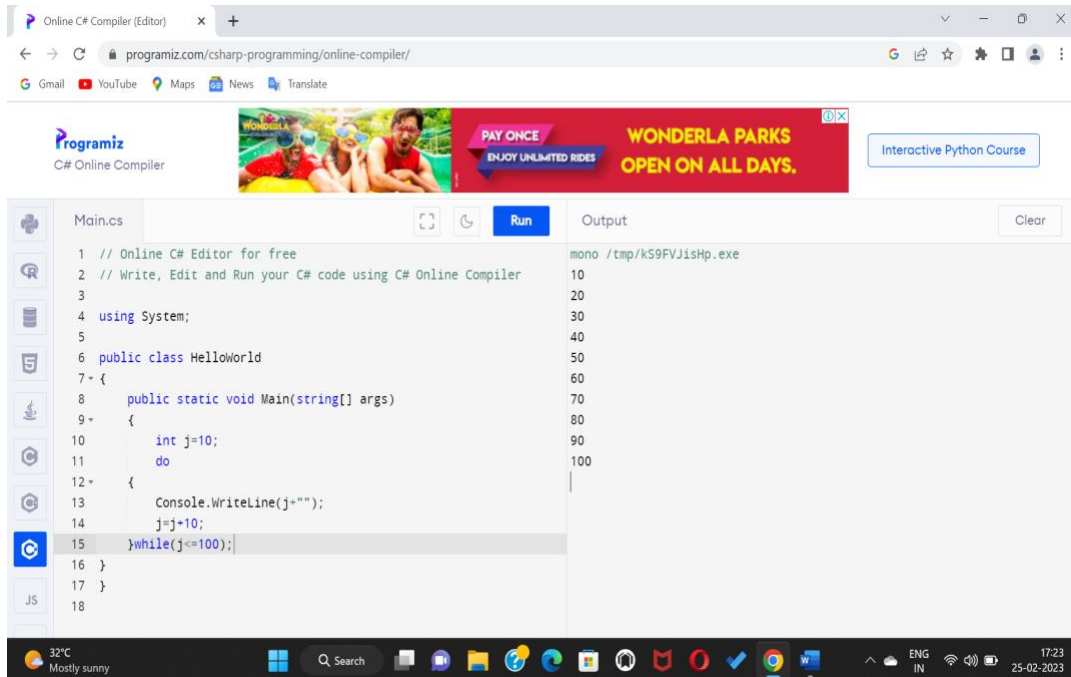


The screenshot shows the Programiz Online C# Compiler interface. The code editor contains the following C# code:

```
1 // Online C# Editor for free
2 // Write, Edit and Run your C# code using C# Online Compiler
3
4 using System;
5
6 public class HelloWorld
7 {
8     public static void Main(string[] args)
9     {
10         int x=0;
11         while (x<=100)
12         {
13             Console.WriteLine(x);
14             x=x*2;
15         }
16     }
17 }
18
```

The code is executed, and the output window displays the numbers 0, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 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3794275180128377091639574036764685364535950857523710002444946112771297432041422848, 7588550360256754

Do while loop:



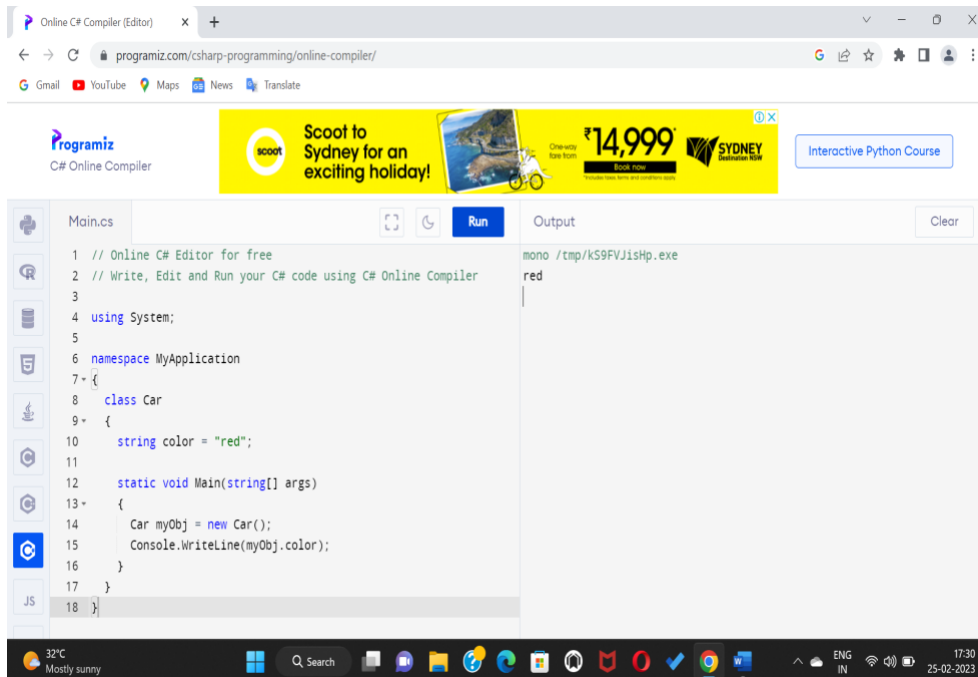
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```
1 // Online C# Editor for free
2 // Write, Edit and Run your C# code using C# Online Compiler
3
4 using System;
5
6 public class HelloWorld
7 {
8     public static void Main(string[] args)
9     {
10         int j=10;
11         do
12         {
13             Console.WriteLine(j+"");
14             j=j+10;
15         }while(j<=100);
16     }
17 }
18
```

The output of the program is displayed on the right:

```
mono /tmp/KS9FVJisHp.exe
10
20
30
40
50
60
70
80
90
100
```

Class, Object and Methods:



The screenshot shows the Programiz Online C# Compiler interface. The code in the editor is as follows:

```
1 // Online C# Editor for free
2 // Write, Edit and Run your C# code using C# Online Compiler
3
4 using System;
5
6 namespace MyApplication
7 {
8     class Car
9     {
10         string color = "red";
11
12         static void Main(string[] args)
13         {
14             Car myObj = new Car();
15             Console.WriteLine(myObj.color);
16         }
17     }
18 }

```

The output of the program is displayed on the right:

```
mono /tmp/KS9FVJisHp.exe
red
```