```
* 1
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class Parcial
       int c = 0;
       int b = 6;
       public void suma()
           Console.WriteLine("ingrese un numero, le mostrare su table de
multiplicar del 1 al 10.");
           int num= int.Parse(Console.ReadLine());
           while(true)
               if ((c >= 0 \&\& c < 10))
               {
                   C++;
                   Console.WriteLine(num + "*" + c + ":" + (num * c));
               }
               else
                   break;
               }
           }
       }
    class Program
       static void Main(string[] args)
        {
           Parcial n= new Parcial();
           n.suma();
       }
    }
}
******************
* 2
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
```

```
namespace ConsoleApp25
    interface IMAtriz
        void mostrar();
        void multiplica x escalar(int n);
    class MatrizLineal : IMAtriz
        int[] m;
        public MatrizLineal(int[] m)
            this.m = m;
            cargaAleatoria();
        public void cargaAleatoria()
            Random rand = new Random();
            for (int i = 0; i < m.Length; i++)
                m[i] = rand.Next(0, 30);
        }
        public void mostrar()
            foreach (var item in m)
                Console.Write("" + item);
        }
        public void multiplica x escalar(int n)
            foreach (var item in m)
                Console.Write("" + item * 2);
            }
        }
    }
    class MatrizCuadrada : IMAtriz
        int[,] m;
        int l = 0;
        public MatrizCuadrada(int[,] m)
        {
            this.m = m;
            1 = m.Length/2;
            Random rand = new Random();
            for (int i = 0; i < 1; i++)
                for (int j = 0; j < 1; j++)
                    m[i, j] = rand.Next(0, 30);
            }
```

```
}
    public void mostrar()
        for (int i = 0; i < 1; i++)
            for (int j = 0; j < 1; j++)
                Console.Write("" + m[i, j].ToString("00"));
            Console.WriteLine();
    }
    public void multiplica x escalar(int n)
        for (int i = 0; i < 1; i++)
        {
            for (int j = 0; j < 1; j++)
                Console.Write("" + (n*m[i, j]).ToString("00"));
            Console.WriteLine();
    }
}
class Calcular
    IMAtriz a;
    public void multiplica x2(IMAtriz a )
        a.multiplica x escalar(2);
}
class Program
    static void Main(string[] args)
        Console.WriteLine("\n<<<vector>>>\n");
        int[] m2 = new int[2];
        IMAtriz mat2 = new MatrizLineal(m2);
        mat2.mostrar();
        Console.WriteLine("\n<<<vector multiplicado x2>>>\n");
        Calcular c2 = new Calcular();
        c2.multiplica x2(mat2);
        Console.WriteLine("\n<<<MAtriz>>>\n");
        int[,]m = new int[2,2];
        IMAtriz mat = new MatrizCuadrada(m);
        mat.mostrar();
        Console.WriteLine("\n<<<matriz x2>>>\n");
        Calcular c = new Calcular();
        c.multiplica x2(mat);
        Console.ReadLine();
```

```
}
***********************
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp25
   class matriz
       int[] m = new int[10];
       public matriz() {
          Random rand = new Random();
          for (int i = 0; i < 10; i++)
              m[i] = rand.Next(0,30);
       public void mostrar ()
          foreach (var item in m )
              Console.WriteLine(item);
       }
    class Program
       static void Main(string[] args)
          matriz mat= new matriz();
          mat.mostrar();
          Console.ReadLine();
       }
   }
******************
* 4
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
```

```
namespace ConsoleApp25
   class Parcial
       int c = 4;
       int b = 6;
       string s = "s";
       public void acumula()
           while (s=="s")
           {
               if ((c >= b \&\& c <= 9))
                   Console.WriteLine("salida"+(c +=1));
               }
               else
                  s = "n";
               }
           }
       }
    class Program
       static void Main(string[] args)
           Parcial n = new Parcial();
           n.acumula();
       }
    }
}
******************
* 5
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class Parcial
       int c = 4;
       int b = 6;
       string s = "s";
       public void acumula()
       {
           while (true)
               Console.WriteLine("salida" + (c += 1));
```

```
if ((c >= b \&\& c <= 9))
                    break;
           }
        }
    }
    class Program
        static void Main(string[] args)
            Parcial n = new Parcial();
            n.acumula();
        }
    }
* 6
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class Parcial
        int c = 4;
        int b = 6;
        string s = "s";
        public void acumula()
            while (true)
                Console.WriteLine("salida" + (c += 1));
                if (c <= 9)
                    break;
        }
    class Program
        static void Main(string[] args)
            Parcial n = new Parcial();
```

```
n.acumula();
       }
   }
}
****************
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class MatrizLineal
       int[] m;
       public MatrizLineal(int[] m)
          this.m=m;
       public void multiplica x escalar(int n)
           for (int j = 0; j < m.Length; j++)
               Console.Write(""+m[j]*2);
       }
    }
    class Program
       static void Main(string[] args)
        int[] m = new int[2];
           m[0] = 2;
           m[1] = m[0];
           MatrizLineal mat = new MatrizLineal(m);
           mat.multiplica x escalar(2);
           Console.ReadLine();
       }
    }
}
* 8
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
```

```
namespace ConsoleApp25
    class MatrizLineal
       int[] m;
       public MatrizLineal(int[] m)
          this.m=m;
       public void multiplica_x escalar(int n)
           foreach(var item in m)
               Console.Write(""+item*2);
       }
    class Program
       static void Main(string[] args)
        int[] m = new int[2];
           m[0] = 2;
           m[1] = 3;
           MatrizLineal mat = new MatrizLineal(m);
           mat.multiplica x escalar(2);
           Console.ReadLine();
       }
    }
}
******************
* 9
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class Parcial
       int c = 4;
       int b = 6;
       string s = "s";
       public void acumula()
           while (s=="s")
               Console.WriteLine("salida" + (c += 1));
```

```
if (c>=b && c <= 9)
                    s="n";
            }
        }
    class Program
        static void Main(string[] args)
            Parcial n = new Parcial();
            n.acumula();
* 10
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp25
    class Parcial
        int c = 4;
        int b = 6;
        public void suma()
            Console.WriteLine("salida"+ (c + b));
    class Program
        static void Main(string[] args)
            Parcial n = new Parcial();
            n.suma();
}
```