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| **C programs to C# Programs**  **Durga Prasad Bokkisam**  **NB Healthcare Technologies PVT LTD.** |

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| Program 1: Multiplication\_table |
| Code: |
| Namespace - Multiplication\_table  {  internal class Program  {  static void Main(string[] args)  {  int i = 1, n;  Console.WriteLine("enter the number");  n = Convert.ToInt32(Console.ReadLine());  while (i <= 10)  {  Console.WriteLine("{0}x{1}={2}", n, i, n \* i);  i++;  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 2: Factorial\_of\_a\_given\_number |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace\_Factorial\_of\_a\_given\_number  {  internal class Program  {  static void Main(string[] args)  {  int i, n, product = 1;  Console.WriteLine("Enter the number");  n = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <= n; i++)  {  product = product \* i;  }  Console.WriteLine(product);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 3: power program |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Console- power program  {  internal class Program  {  static void Main(string[] args)  {  int fn, sn, sum = 0;  int p = 1; fn = 60;  Console.WriteLine("Enter first number:"); fn = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter second number:"); sn = Convert.ToInt32(Console.ReadLine());  for (int i = 1; i <= sn; i++) p = p \* fn;  Console.WriteLine("power =" + p);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 4: Digit sum Program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Digitsum\_program  {  internal class Program  {  static void Main(string[] args)  {  int rem, sum = 0, number; Console.WriteLine("enter number:");  number = Convert.ToInt32(Console.ReadLine()); int temp = number;  while (number > 0)  {  rem = number % 10; sum = sum + rem; number = number / 10;  }  Console.WriteLine("Sum of given {0} is {1}", temp, sum); Console.ReadLine();  }  }  } |
| Output: |

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| Program 5: Addition two Number - Console |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day1Project\_1  {  internal class Program  {  static void Main(string[] args)  {  int fn, sn, Sum = 0;  Console.WriteLine("First Number:");  fn = Convert.ToInt32 (Console.ReadLine());  Console.WriteLine("Secound Number:");  sn = Convert.ToInt32(Console.ReadLine());  Sum = fn + sn;  Console.WriteLine("Sum=" +Sum);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 6: Power of 2 numbers - Console |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Power of 2 numbers - Console  {  internal class Program  {  static void Main(string[] args)  {  int fn, sn, sum = 0;  int p = 1;  Console.WriteLine("First Number:");  fn = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Second Number:");  sn = Convert.ToInt32(Console.ReadLine());  for (int i = 1; i <= sn; i++)  p = p \* fn;  Console.WriteLine("power ="+p);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 7: Reverse a number |
| Code:  using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace Power of 2 numbers - Windows  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void label2\_Click(object sender, EventArgs e)  {  }  private void button1\_Click(object sender, EventArgs e)  {  int fn = Convert.ToInt32(textBox1.Text);  int sn = Convert.ToInt32(textBox2.Text);  int p = 1;  for(int i=1;i<=sn;i++)  {  p = p \* fn;  }  textBox3.Text = p.ToString();  }  }  } |
| Output: |

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| Program 8: forloop\_Program\_\_\_Hello 10 times |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace forloop\_Program\_\_\_Hello\_\_\_\_2  {  internal class Program  {  static void Main(string[] args)  {  int i;  for(i=1;i<=10;i++)  {  Console.WriteLine("Hello");  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 9: Swich case to our Required Latter |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Switch\_program  {  internal class Program  {  static void Main(string[] args)  {  char input = 'D';  switch (input)  {  case 'D':  case 'U':  case 'R':  case 'G':  case 'A':  Console.WriteLine("the input is DURGA");  break;  default:  Console.WriteLine("consonent");  break;  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 10: factorial using function |
| Code:  Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace function\_factorial  {  internal class Program  {  public static int Factorial(int n)  {  int fact = 1;  for (int i = 1; i < n; i++)  fact \*= i; return fact;  }  public static void print(int n)  {  Console.WriteLine("Facorial of {0} = {1}", n, Factorial(n));  }  static void Main(string[] args)  {  int n = 7, n1 = 9, n2 = 3;  print(n); print(n1); print(n2);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 11: Factorial\_using\_function -Recursion |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Factorial\_using\_function  {  internal class Program  {  public static int Factorial(int n)  {  if (n == 0) return 1;  else  return n \* Factorial(n - 1);  }  public static void Print(int n)  {  Console.WriteLine("Factorial of {0} ={1}", n, Factorial(n));  }  static void Main(string[] args)  {  {  int n = 9, n1 = 7, n2 = 6; Print(n);  Print(n1); Print(n2);  Console.ReadLine();  }  }  }  } |
| Output: |

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| Program 12: Prime\_Number\_or\_not\_program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Prime\_Number\_or\_not\_program  {  internal class Program  {  static void Main(string[] args)  {    int input, i, count = 0;    Console.WriteLine("Enter Input");  input = Convert.ToInt32(Console.ReadLine());  for (i = 2; i <= input; i++)  {  if (input % i == 0) break;  }  if (i == input)  Console.WriteLine("The given input {0} is Prime", input);  else  Console.WriteLine("The given input {0} is not a prime", input);  Console.ReadLine();  }  }  } |
| Output: |

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| Program 13: Prime\_in\_Range |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Prime\_in\_Range  {  internal class Program  {  public static bool Prime(int input)  {  int i;  for (i = 2; i < input; i++)  {  if (input % i == 0) break;  }  if (i == input) return true;  else  return false;  }  static void Main(string[] args)  {  int i, a, b; Console.WriteLine("Enter a:");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter b:");  b = Convert.ToInt32(Console.ReadLine()); for (i = a; i <= b; i++)  {  if (Prime(i)) Console.WriteLine(i);  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 14: Fibonacci program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Fibanocci\_program\_1  {  internal class Program  {  static void Main(string[] args)  {  int input; Console.WriteLine("enter input");  input = Convert.ToInt32((Console.ReadLine())); int next = 0;  int prev = 0;  for (int i = 0; i <= input; i++)  {  if (next == 0)  {  next = 1;  }  else  {  int temp = next; next = next + prev; prev = temp;  }  Console.WriteLine(next);  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 15: Armstrong program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Armstrong\_Program  {  internal class Program  {  static void Main(string[] args)  {  int number, rem, sum = 0, temp; Console.WriteLine("enter number");  number = Convert.ToInt32(Console.ReadLine()); temp = number;  while (number > 0)  {  rem = number % 10;  sum = sum + (rem \* rem \* rem); number = number / 10;  }  if (temp == sum)  {  Console.WriteLine("{0} is Armstrong", temp);  }  else  {  Console.WriteLine("{0} is not Armsrong", temp);  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 16: Armstrong function program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Armstrong\_Function\_Program  {  internal class Program  {  public static bool Arm(int number)  {  int temp, sum = 0, rem; temp = number;  while (number > 0)  {  rem = number % 10;  sum = sum + (rem \* rem \* rem);  number = number / 10;  }  if (temp == sum)  {  return true;  }  else  {  return false;  }  }  static void Main(string[] args)  {  int number; Console.WriteLine("enter number:");  number = Convert.ToInt32(Console.ReadLine()); if (Arm(number) == true)  Console.WriteLine("{o} is Armstrong number", number);  else  Console.WriteLine("{0} is not Armstrong number", number); Console.ReadLine();  }  }  } |
| Output: |

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| Program 17: Armstrong in Range Program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Armstrong\_range\_program  {  internal class Program  {  public static bool Arm(int number)  {  int temp, sum = 0, rem; temp = number;  while (number > 0)  {  rem = number % 10;  sum = sum + (rem \* rem \* rem); number = number / 10;  }  if (temp == sum)  {  return true;  }  else  {  return false;  }  }  public static void Main(string[] args)  {  int a, b; Console.WriteLine("enter a:");  a = Convert.ToInt32(Console.ReadLine()); Console.WriteLine("enter b:");  b = Convert.ToInt32(Console.ReadLine()); for (int i = a; i <= b; i++)  {  if (Arm(i)) Console.WriteLine(i);  }  Console.ReadLine();  }  }  } |
| Output: |

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| Program 18: prime Number using function Program |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace prime\_number\_using\_functions\_Program  {  internal class Program  {  public static void Prime(int input)  {  int i;  for (i = 2; i < input; i++)  {  if (input % i == 0) break;  }  if (i == input)  Console.WriteLine("{0} is prime", input);  else  Console.WriteLine("{0} is no a prime", input);  }  static void Main(string[] args)  {  Console.WriteLine("enter input"); Prime(Convert.ToInt32(Console.ReadLine())); Console.ReadLine();  }  }  } |
| Output: |