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| **C Programs to C# Programs**  **By**  **ARUN KUMAR YADLAPALLI**  **@**  **NB Healthcare Technologies PVT LTD.** |

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| Program 1: Printing Multiplication table |
| Code:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  Namespace Multiplication\_table  {  class Program  {  static void Main(string[] args)  {  int i, n;  Console.WriteLine("Enter the number");  n = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <= 10; i++)  {  Console.WriteLine("{0}X{1}={2}",n,i,n\*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 Console\_Facatorial  {  internal class Program  {  static void Main(string[] args)  {  //variable declaration  int input, product = 1, i;  //user input  Console.WriteLine("Enter any number");  input = Convert.ToInt32(Console.ReadLine());    //logic  for(i=1;i<=input;i++)  {  product = product \* i;    }    //output  Console.WriteLine(product);  Console.ReadLine();    }  } |
| Output: |

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| Program 3: Sum of n natural numbers |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Console\_Sum\_\_of\_n\_Numbers  {  internal class Program  {  static void Main(string[] args)  {  //variable declaration  int input, sum = 0, i;    //user input  Console.WriteLine("enter any number");  input = Convert.ToInt32(Console.ReadLine());    //logic  for(i=1;i<=input;i++)  {  sum = sum + i;    }    //print output  Console.WriteLine(sum);  Console.ReadLine();      }  }  } |
| Output: |

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| Program 4: Factors of a given number |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Console\_Factors\_App  {  internal class Program  {  static void Main(string[] args)  {  //variable declarartion  int input, i;  Console.WriteLine("Enter any number");  input = Convert.ToInt32(Console.ReadLine());      //logic  for (i = 1; i <= input; i++)  {  if (input % i == 0)  Console.WriteLine(i);  }  Console.ReadLine();      }  }  } |
| Output: |

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| Program 5: Power for the given numbers |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Console\_power1  {  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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| Program6: Factorial using function |
| 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 = 4, n1 = 5, n2 = 7;    print(n);  print(n1);  print(n2);  Console.ReadLine();  }                }  } |
| Output: |

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| Program7: Factorial using recurrsion |
| 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 = 4, n1 = 7, n2 = 6;  Print(n);  Print(n1);  Print(n2);  Console.ReadLine();    }    }  }    } |
| Output: |

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| Program8: Given number Is Prime or not |
| 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)  {  //variable declaration  int input, i, count = 0;  //input  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 9: Prime number using function |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace prime\_number\_using\_functions  {  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: |

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| Program 10: Prime numbers in particular 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 11: Fibonacci Series |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Fibanocci\_program  {  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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| Program12: Arm strong number |
| 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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| Program13: Arm strong number using function |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Armstrong\_Function  {  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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| Program14: Armstrong numbers using range |
| 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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| Program15: Sum of the digits |
| 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: Reverse of a number |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Reverse\_number\_program  {  internal class Program  {  static void Main(string[] args)  {  int n, temp, rem, rev = 0;  Console.WriteLine("enter number");  n = Convert.ToInt32(Console.ReadLine());  temp = n;  while(n>0)  {  rem = n % 10;  rev = (rev \* 10) + rem;  n = n / 10;    }    Console.WriteLine("The reverse of {0} is {1}", temp, rev);    Console.ReadLine();    }  }  } |
| Output: |

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