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| **20 C# Programs assignment**  **By**  **Joshna U**  **27-Jan-2022** |

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| Program-1 |
| WACP C# program to print multiplication table of given number: |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day4\_Mrng\_Assignment1  {  internal class Program  {  static void Main(string[] args)  {  int number, multiplier;  Console.WriteLine("Enter the Number");  number = Convert.ToInt32(Console.ReadLine());  for (multiplier = 1; multiplier <= 10; multiplier++)  {  Console.WriteLine("{0} \* {1} = {2}", number, multiplier, (number \* multiplier));  }  Console.WriteLine("Press any key to exit");  Console.ReadKey();  }  }  } |
| Output: |
| C:\Users\KOLLI TEJASWI\Downloads\Untitled.png |
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| Program-2 |
| WACP to print factorial of given number: |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Day4\_Mrng\_Assignment2  {  internal class Program  {  static void Main(string[] args)  {  int num, fact = 1;  Console.WriteLine("Enter the Number");  num = Convert.ToInt32(Console.ReadLine());  for (int i= 1; i<= num; i++)  {  fact = fact \* i;  }  Console.WriteLine("Factorial of " + num + " is : " + fact);  Console.ReadLine();  }  }  } |
| Output: |
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| Program-3 |
| WACP to print sum of N natural numbers: |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace while\_loop  {  internal class Program  {  static void Main(string[] args)  {  int n, i, sum = 0;  Console.WriteLine("Enter Positive Number :");  n = int.Parse(Console.ReadLine());  for (i = 1; i <= n; i++)  {  sum = sum + i;  }  Console.WriteLine("The Sum of Numbers = " + sum);  Console.ReadLine();  }  }  } |
| Output: |
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| Program-4 |
| WACP to print factorial using Recursion: |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace for\_loop  {  internal class Program  {  static void Main(string[] args)  {  Console.WriteLine("Please provide factorial number");  int factNumber = Int32.Parse(Console.ReadLine());  int result = FactorialCalculation(factNumber);  Console.WriteLine("Result is :(0)", result);  }  static int fact = 1;  private static int FactorialCalculation(int factNumber)  {  if (factNumber > 0)  {  fact = factNumber \* FactorialCalculation(factNumber = 1);  }  return fact;  }    }      } |
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| Program-5 |
| WACP to print factors of a given number: |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ConsoleApp9  {  internal class Program  {  static void Main(string[] args)  {  int number;  Console.WriteLine("Enter a natural number");  number = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("The Divisors for the number {0} are", number);  Console.WriteLine("{0} {1} ", number);  for(int divisor = 2;divisor <= (number/2);divisor++)  {  if ((number % divisor) == 0)  Console.WriteLine("{0}", divisor);  }  }  }  } |
| Output: |
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