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| 1.Write a Multiplication table on a C# Program |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System. Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {  int input, i;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <= 10; i++)  Console.WriteLine(input + "\*" + i + "=" + input \* i);  Console.ReadLine();  }  }  } |
| Output |
| Capture.PNG |

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| 2. Print Factorial number of a given number in C# Program |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {  int input, i, fact = 1; ;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <=input; i++)  fact = fact \* i;  Console.WriteLine("factorial of a given number:" +fact );  Console.ReadLine();  }  }  } |
| Output |
| 2pic.PNG |

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| 3. Write a C# program of Sum of n natural numbers |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {  int input, i, sum = 0 ;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <=input; i++)  sum = sum + i;  Console.WriteLine("sum of a given natural number is :" + sum);  Console.ReadLine();  }  }  } |
| Output |
| pic 3.PNG |

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| 4. Print Factors of a given number in C# program |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int input, i;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());    for (i = 1; i <=input; i++)  {  if (input % i == 0)  Console.WriteLine(i);  }  Console.ReadLine();  }  }  } |
| Output |
| 4pic.PNG |

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| 5. Print power of given numbers {a and b} on C# program |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int a,b,result=1, i;  Console.WriteLine("Enter valu of a:");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter valu of b:");  b = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <= b; i++)  result = result \* a;  Console.WriteLine("The power is:"+result);  Console.ReadLine();  }  }  } |
| Output |
| pic 5.PNG |

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| 6. To Check the number prime or not on c# program |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int input, i, count= 0;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  for (i = 1; i <=input; i++)  {  if(input%i==0)  count++;  }  if (count == 2)  Console.WriteLine("It is a prime number", input);  else Console.WriteLine("It is not a prime number", input);  Console.ReadLine();  }  }  } |
| output |
| pic 6.PNG |

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| 7. Prime Number check using Function on C# program |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {    Console.WriteLine("Enter any number:");  int input = Convert.ToInt32(Console.ReadLine());  if (isPrimeNumber(input))  Console.WriteLine("It is a PrimeNumber", input);  else  Console.WriteLine("It is not a PrimeNumber", input);  Console.ReadLine();  }  static bool isPrimeNumber(int input)  {    for (int i = 2; i < input; i++){  if (input % i == 0)  {  return false;  }  }      return true;  }  }  } |
| Output |
| pic 7.PNG |

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| 8. factorial program using recurision |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {    Console.WriteLine("Enter any number:");  int input = Convert.ToInt32(Console.ReadLine());  int factorial= getFact(input);    Console.WriteLine("factorial value is: " + factorial);    Console.ReadLine();  }  static int getFact(int input)  {    if (input == 0)  return 1;  else  return input \* getFact(input - 1);  }        }  } |
| Output |
| pic 8.PNG |

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| 9. Prime numbers in given range in c# |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {    Console.WriteLine("Enter number 1:");    int input1 = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter number 2:");  int input2 = Convert.ToInt32(Console.ReadLine());    for(int i = input1; i <= input2; i++)  {  isPrime(i);  }      Console.ReadLine();  }  static void isPrime(int input)  {  bool isPrimenum = true;  for (int i = 2; i < input; i++)  {  if (input % i == 0)  {  isPrimenum = false;    }  }  if (isPrimenum == true)  {  Console.WriteLine(input);  }    }  }  } |
| Output |
| pic 9.PNG |

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| 10. C3# program on Fibonacci |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int a = 0, b = 1, c, n;  Console.WriteLine("Enter number of fibnocci range n-2:");    n = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("0");  Console.WriteLine("1");  for (int i = 0; i < n-2; i++) {    c = a + b;  a = b;  b = c;  Console.WriteLine(c);  }      Console.ReadLine();  }    }  } |
| output |
| pic 10.PNG |

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| 11. Write C# program on Armstrong Number |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int n, rem, m, res =0;  Console.WriteLine("Enter any number :");    n = Convert.ToInt32(Console.ReadLine());    m = n;  while( m>0) {  rem = m % 10;  m /= 10;  res = res + rem \* rem \* rem;  }  Console.WriteLine((res == n) ? "Armstrong" : "not");      Console.ReadLine();  }    }  } |
| output |
| pic11.PNG |

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| 12.Write C# program on Armstrong number using function |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int n, rem, m, res =0;  Console.WriteLine("Enter any number :");    n = Convert.ToInt32(Console.ReadLine());  getArmtrong(n);  Console.ReadLine();  }  static void getArmtrong(int n)  {  int rem, m, res = 0;    m = n;  while (m > 0)  {  rem = m % 10;  m /= 10;  res = res + rem \* rem \* rem;  }  Console.WriteLine((res == n) ? "Armstrong" : "not Armstrong");  }  }  } |
| Output |
| pic11.PNG |

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| 13. Swap two numbers using third variable |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int a = 5, b = 3, temp;    temp = a;  a = b;  b = temp;  Console.WriteLine("Values after swapping are:");  Console.WriteLine("a=" + a);  Console.WriteLine("b=" + b);    }  }    } |
| output |
| pic 13.PNG |

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| 14. Swap two numbers using without variable |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int a = 10, b = 20;    a = a + b;  b = a - b;  a = a - b;  Console.WriteLine("Values after swapping are:");  Console.WriteLine("a=" + a);  Console.WriteLine("b=" + b);  }  }    } |
| output |
| pic 14.PNG |

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| 15. Write a C# program on Palindrome |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int n,m,rem,rev=0;  Console.WriteLine("Enter a number");  n= Convert.ToInt32(Console.ReadLine());  m = n;  while(m>0)  {  rem = m % 10;  m= m / 10;  rev = rev \* 10 + rem;  }  if (n == rev)  Console.WriteLine("Given numbr is palindrome");  else  Console.WriteLine("Given numbr is not a palindrome");  Console.ReadLine();    }  }    } |
| Output |
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| 16. Write C# Program of Reverse Number |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int n,m,rem,rev=0;  Console.WriteLine("Enter a number");  n= Convert.ToInt32(Console.ReadLine());  m = n;  while(m>0)  {  rem = m % 10;  m= m / 10;  rev = rev \* 10 + rem;  }    Console.WriteLine("The Reverse Number is: " +rev);    Console.ReadLine();    }  }    } |
| Output |
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| 17. Write a C# on Sum of digits |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {    static void Main(string[] args)  {  int n,m,rem,rev=0;  Console.WriteLine("Enter a number");  n= Convert.ToInt32(Console.ReadLine());  m = n;  while(m>0)  {  rem = m % 10;  m= m / 10;  rev = rev + rem;  }    Console.WriteLine("The Sum of Numbers is: " +rev);    Console.ReadLine();    }  }    } |
| Output |
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| 18. Factorial of a given Number using function |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {  int input, i, fact = 1;  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  getFact(input);  }  static void getFact(int input)  {  int fact = 1;  for (int i = 1; i <= input; i++)  {  fact = fact \* i;  }    Console.WriteLine("factorial of a given number:" + fact);  Console.ReadLine();  }  }    } |
| Output |
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| 19. Armstrong Numbers in Given range on C# program |
| code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {  Console.WriteLine("Enter number 1:");  int input1 = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter number 2:");  int input2 = Convert.ToInt32(Console.ReadLine());  for (int i = input1; i <= input2; i++)  {  if (getArmtrong(i))  {  Console.WriteLine(i);  }  }  Console.ReadLine();  }  static bool getArmtrong(int n)  {  int rem, m, res = 0;  m = n;  while (m > 0)  {  rem = m % 10;  m /= 10;  res = res + rem \* rem \* rem;  }  return((res == n) ? true : false);  }  }  } |
| Output |
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| 20. Print stars in a pattern |
| Code |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_4\_Multiplication\_prgm\_1  {  internal class Program  {  static void Main(string[] args)  {    Console.WriteLine("Enter no.of rows to be Printed:");  int n = Convert.ToInt32(Console.ReadLine());  for (int i = 1; i <= n; i++)  {  for(int j =1; j<=i; j++)  {  Console.Write(" \* ");  }  Console.WriteLine();    }  Console.ReadLine();  }    }  } |
| Output |
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