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| Day 13 assignment  BY  J Siva Naga Prasanna  10-02-2022 |

1.Research and write what is the use of sealed class?

Sealed class is used to stop a class to be inherited .you cannot derive or extend any class from it

2.write a c# program to illustrate sealed class?

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author:J siva naga prasanna  //purpose:program to iilustrate sealed methode  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day14project1  {  sealed class Police  {  public static int Helpline = 100;  public string Getsecret()  {  return "007";  }  }  internal class Program  {  static void Main(string[] args)  {  Police p = new Police();  Console.WriteLine(p.Getsecret());  Console.WriteLine(Police.Helpline);  Console.ReadLine();  }  }  } |

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| 3.write a c# program to check if the number is prime or not using break statement |

Code:

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author:J siva naga prasanna  //Purpose:prime number or not( using break)  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day14pro4  {  internal class Program  {  static void Main(string[] args)  {  int n = 17, i;  for (i = 2; i < n; i++)  {  if (n % i == 0)  break;  }  if (i == n)  Console.WriteLine("prime number");  else  Console.WriteLine("not a prime number");  Console.ReadLine();  }  }  } |

Output:

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| 5.print numbers from 1 to 30 and skip the numbers divisible by 3 by using continue statement |

Code:

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author:j siva naga prasanna  //Purpose:print 1 to 30 numbers using continue  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day14pro5  {  internal class Program  {  static void Main(string[] args)  {  for (int i = 1; i <= 30; i++)  {  if (i % 3 == 0)  continue;  Console.WriteLine(i);  }  Console.ReadLine();  }  }  } |

Output:

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| 6.find the first number after 1000 which is divisible by 3 using for loop and break statement |

Code:

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author:J siva naga prasanna  //Purpose:first number after 1000 divisible by 97  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day14pro6  {  internal class Program  {  static void Main(string[] args)  {  for (int i = 1000; i <= 1097; i++)  {  if (i % 97 == 0)  {  Console.WriteLine(i);  break;  }  }  Console.ReadLine();  }  }  } |

Output:

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