Day 9 Morning Assignment

By

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| 1.Write a c# program to read input from user and print |
| (a)Factorial of a number |
| Code : |
| using System;  uusing System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_1\_\_a\_  {  class Mathoperations  {  private int input;  public void ReadInput()  {  Console.WriteLine("enter number");  input = Convert.ToInt32(Console.ReadLine());  }  public int Factorial()  {  int fact = 1;  for (int i = 1; i <= input; i++)  {  fact = fact \* i;  }  return fact;  }  internal class Program  {  static void Main(string[] args)  {  Mathoperations obj = new Mathoperations();  obj.ReadInput();  Console.WriteLine(obj.Factorial());  Console.ReadLine();  }  }  }    }  sing System.Col internal class Program  {  static v |
| Output: |
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| (b)Factors of a number |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_1\_b\_  {  class Mathoperations  {  private int input;  public void ReadInput()  {  Console.WriteLine("enter number");  input = Convert.ToInt32(Console.ReadLine());  }  public void printfactors()  {    for (int i = 1; i <= input; i++)  {  if (input%i == 0)  Console.WriteLine(i);  }    }  internal class Program  {  static void Main(string[] args)  {  Mathoperations obj = new Mathoperations();  obj.ReadInput();  obj.printfactors();  Console.ReadLine();  }  }  }  } |
| Output: |
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| (C) Check if it is prime or not |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_1\_c\_  {  class Primeoprations  {  private int input;  public void ReadInput()  {  Console.WriteLine("enter number");  input = Convert.ToInt32(Console.ReadLine());  }  public bool Isprime()  {  int count = 0;  for (int i = 1; i <= input; i++)  {  if (input%i == 0)  count ++;  }  if (count == 2)  return true;  else  return false;    }  internal class Program  {  static void Main(string[] args)  {  Primeoprations obj = new Primeoprations();  obj.ReadInput();  if (obj.Isprime())  Console.WriteLine("input is prime number");  else  Console.WriteLine("input is not a prime number");  Console.ReadLine();  }  }  }  } |
| Output: |
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| 2.write c# program to read two numbers from use and print |
| (a)sum of two numbers |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_2\_\_a\_  {  class Mathaddition  {  private int a;  private int b;  public void ReadInput()  {  Console.WriteLine("enter a number");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter b number");  b = Convert.ToInt32(Console.ReadLine());  }  public int addnumbers()  {  return a + b;  }  internal class Program  {  static void Main(string[] args)  {  Mathaddition mt = new Mathaddition();  mt.ReadInput();  Console.WriteLine(mt.addnumbers());  Console.ReadLine();  }  }  }  } |
| Output : |
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| (b)subtraction |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_2\_\_b\_  {  class Mathsubtraction  {  private int a;  private int b;  public void ReadInput()  {  Console.WriteLine("enter a number");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter b number");  b = Convert.ToInt32(Console.ReadLine());  }  public int subnumbers()  {  return a - b;  }  internal class Program  {  static void Main(string[] args)  {  Mathsubtraction mt = new Mathsubtraction();  mt.ReadInput();  Console.WriteLine(mt.subnumbers());  Console.ReadLine();  }  }  }  } |
| Output: |
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| (c)Multiplication |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_2\_c\_  {  class Mathmultiplication  {  private int a;  private int b;  public void ReadInput()  {  Console.WriteLine("enter a number");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter b number");  b = Convert.ToInt32(Console.ReadLine());  }  public int mulnumbers()  {  return a \* b;  }  internal class Program  {  static void Main(string[] args)  {  Mathmultiplication mul = new Mathmultiplication();  mul.ReadInput();  Console.WriteLine(mul.mulnumbers()) ;  Console.ReadLine();  }  }  }  } |
| Output: |
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| (d)division |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_2\_\_d\_  {  class Mathdivision  {  private int a;  private int b;  public void ReadInput()  {  Console.WriteLine("enter a number");  a = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter b number");  b = Convert.ToInt32(Console.ReadLine());  }  public int divnumbers()  {  return a % b;  }  internal class Program  {  static void Main(string[] args)  {  Mathdivision mt = new Mathdivision();  mt.ReadInput();  Console.WriteLine(mt.divnumbers());  Console.ReadLine();  }  }  }  }  Output: |
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| 3.Create an employee class with below variables id,name,salary,company, write methods to readdata and print data |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_3  {  class Employee  {  public int id;  public string name;  public int salary;  public string company;  public void Readdata()  {  Console.WriteLine("enter employee id");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter name");  name = Console.ReadLine();  Console.WriteLine("enter salary");  salary = Convert.ToInt32(Console.ReadLine());  company = "NB";  }  public void printdata()  {  Console.WriteLine($"id : {id}, name : {name}, salary : {salary}, company : {company}");  }    internal class Program  {  static void Main(string[] args)  {  Employee emp = new Employee();  emp.Readdata();  emp.printdata();  Console.ReadLine();    }  }  }  } |
| Output : |
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| 4.Create Employee class with two constructors as discussed as discussed in the class |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_9th\_day\_project\_4  {  class employee  {  public int id;  public string name;  public int salary;  public employee()  {  this.id = 0;  this.name = null;  this.salary = 0;  }  public employee(int id, string name, int salary)  {  this.id = id;  this.name = name;  this.salary = salary;  }  public void Readdata()  {  Console.WriteLine("enter employee id");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter name");  name = Console.ReadLine();  Console.WriteLine("enter salary");  salary = Convert.ToInt32(Console.ReadLine());    }  public void printdata()  {  Console.WriteLine($"id : {id}, name : {name}, salary : {salary},");  }  }    internal class Program  {  static void Main(string[] args)  {  employee emp = new employee(2,"sai",200);    emp.printdata();  Console.ReadLine();  }  }  } |
| Output : |
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