VASANTHABALAN M

```
Main Program To Excute All Questions
using ExecutionAll;
using System;
using System. Diagnostics;
namespace ExecutionAll // Note: actual namespace depends on the project name.
{
  internal class Program
  {
    static void Main(string[] args)
    {
      /*
      Console.WriteLine("Enter the chicken count:");
      int chicken = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the cows count:");
      int cows = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the Pigs count:");
      int pigs = Convert.ToInt32(Console.ReadLine());
      BaseFarmer baseFarmer = new BaseFarmer(chicken,cows,pigs);
      Console.WriteLine("The total number of legs in their farmlands is:"+ baseFarmer.LegsCount());*/
      /*2.
      Console.WriteLine("Enter the Matches wins:");
      int wins =Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the Draws wins:");
      int drwas = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the Losses wins:");
```

```
int losses = Convert.ToInt32(Console.ReadLine());
if(wins >=0 && drwas>=0 && losses>=0)
  Football football = new Football(wins, drwas, losses);
  Console.WriteLine("The number of points scored by football team is:"+ football.scores());
}
else
{
  Console.WriteLine("Enter numbers must be greater than or equal to zero");
}*/
//3.
//Jadded2D jadded2D = new Jadded2D();
//jadded2D.display();
//jadded2D.disp();
//LambdaLE lambdaLE = new LambdaLE();
//lambdaLE.evennums();
/*Console.WriteLine("Enter the prob:");
double probs = Convert.ToDouble(Console.ReadLine());
Console.WriteLine("Enter the Prize:");
int prze = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("Enter the Pay:");
int pays = Convert.ToInt32(Console.ReadLine());
ProfitableGaming profitable = new ProfitableGaming(probs,prze,pays);
```

```
bool res = profitable.calc();
Console.WriteLine(res);*/
//4
/*Console.WriteLine("Enter the Stackboxes:");
int count = Convert.ToInt32(Console.ReadLine());
Cubes cubes = new Cubes(count);
Console.WriteLine("The answer is:" +cubes.squares());*/
//5
/*Console.WriteLine("Enter the age");
int age = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("Enter the breaktime");
bool breaktime = Convert.ToBoolean(Console.ReadLine());
BarTender bartender = new BarTender();
Console.WriteLine(bartender.ShouldServeDrinks(age, breaktime));*/
//6
/*Console.WriteLine("Enter the cup count");
int cup = Convert.ToInt32(Console.ReadLine());
Cofee cofee = new Cofee();
Console.WriteLine("Total Number of cups: " + cofee.TotalCups(cup));*/
//7
//8
Console.WriteLine("Enter the number of switches");
```

```
int num = Convert.ToInt32(Console.ReadLine());
      Switchs switchs = new Switchs();
      Console.WriteLine(switchs.PosCom(num));
    }
 }
}
}
1)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class BaseFarmer
  {
    private int chicken;
    private int cows;
    private int pigs;
    public BaseFarmer(int chicken, int cows, int pigs)
      this.Chicken = chicken;
      this.Cows = cows;
```

```
this.Pigs = pigs;
    }
    public int Chicken { get => chicken; set => chicken = value; }
    public int Cows { get => cows; set => cows = value; }
    public int Pigs { get => pigs; set => pigs = value; }
    public int LegsCount()
    {
      int result = (this.Chicken * 2 + this.Cows * 4 + this.Pigs * 4);
       return result;
    }
  }
}
2)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class Football
  {
    private int wins;
    private int draws;
    private int losses;
```

```
public Football(int wins, int draws, int losses)
      this.Wins = wins;
      this.Draws = draws;
      this.Losses = losses;
    }
    public int Wins { get => wins; set => wins = value; }
    public int Draws { get => draws; set => draws = value; }
    public int Losses { get => losses; set => losses = value; }
    public int scores()
    {
       int points = this.Wins * 3 +this.Draws * 1 +this.Losses * 0;
       return points;
    }
  }
}
3)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class ProfitableGaming
  {
```

```
private double prob;
  private int prize;
  private int pay;
  public ProfitableGaming(double prob, int prize, int pay)
  {
    this.Prob = prob;
    this.Prize = prize;
    this.Pay = pay;
  }
  public double Prob { get => prob; set => prob = value; }
  public int Prize { get => prize; set => prize = value; }
  public int Pay { get => pay; set => pay = value; }
  public bool calc()
  {
    if (this.Prob * this.Prize > this.Pay)
    {
       return true;
    }
    else
    {
       return false;
    }
  }
}
```

}

```
4)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class Cubes
  {
    private int cube;
    public Cubes(int cube)
      this.Cube = cube;
    }
    public int Cube { get => cube; set => cube = value; }
    public int squares()
    {
      int res = cube * cube;
      return res;
    }
 }
}
5)
using System;
```

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class BarTender
  {
    private int age;
    private bool breaktime;
    public int Age { get => age; set => age = value; }
    public bool Breaktime { get => breaktime; set => breaktime = value; }
    public bool ShouldServeDrinks(int age, bool breaktime)
    {
      if ((age >= 18) && (breaktime == false))
      {
        return true;
      }
      else
      {
        return false;
      }
    }
  }
}
6)
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ExecutionAll
{
  internal class Cofee
  {
    private int cups;
    public int Cups { get => cups; set => cups = value; }
    public int TotalCups(int cups)
      int total_cups = (cups / 6) + cups;
      return total_cups;
    }
 }
}
7)
8)
using System;
using System.Collections.Generic;
```

```
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ExecutionAll
{
   internal class Switchs
   {
     public int PosCom(int num)
     {
       return (int)Math.Pow(2, num);
     }
}
```