|  |  |
| --- | --- |
| Ghế  Abstract class | |
| -maSP  #tensp  -dongia  -soluong  +tilethue | String  String  Float  Int  static |
| +Masp get/set  +dongia get/set  +soluong get/set  + abstract thue()  +thanhtien()  +abstract phiQBSP()  +thuephaidong()  +ghe()  +ghe(int, float) | |

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| --- |
| Ghế lười class |
| Dien tich int |
| phiQBSP()  thue()  phiBVMT()  phiTaiche() |

|  |
| --- |
| Ghế xoay class |
| Loaighe string |
| phiQBSP()  thue()  phiBVMT()  phiTaiche() |

|  |
| --- |
| Ghế hop class |
| Can nang int |
| phiQBSP()  thue() |

|  |
| --- |
| Interface Iphi |
|  |
| phiBVMT()  phiTaiche() |

abstract class gheHP

{

string masp;

protected string tensp;

int soluong;

double dongia;

public string Masp { get => masp;

set

{

if (value.StartsWith("SP") == true && value.Length == 4 && value.Substring(2).All(char.IsDigit) == true)

masp = value;

else

throw new Exception("Loi");

}

}

public int Soluong

{

get { return soluong; }

set

{

if (value < 0)

throw new Exception("Loi");

else

soluong = value;

}

}

public double Dongia

{

get { return dongia; }

set

{

if (value < 0)

throw new Exception("Loi");

else

dongia = value;

}

}

public gheHP()

{

Masp = "SP01";

tensp = "Ghe luoi van phong";

}

public gheHP(int soluong,double Dongia)

{

Masp = "SP19";

tensp = "Ghe hop thong thuong";

this.Soluong = soluong;

this.Dongia = Dongia;

}

abstract public double thue();

public abstract double phiQBSP();

public double thanhtien()

{

return Dongia \* Soluong + thue() + phiQBSP();

}

public static double tilethue = 0.1;

public double thuephaidong()

{

return thanhtien() + thue() \* tilethue;

}

}

interface IphiBS

{

double phiBVMT();

double phiTC();

}

class ghehop:gheHP

{

int cannang;

public override double thue()

{

return 0.05 \* Dongia;

}

public override double phiQBSP()

{

if (cannang < 5)

return 0;

else

return 60000;

}

}

class ghexoay:gheHP,IphiBS

{

string loaighe;

public override double thue()

{

return 0.1 \* Dongia;

}

public override double phiQBSP()

{

if (loaighe.Equals("tre em") == true)

return 0;

else if (loaighe.Equals("Nhan vien") == true)

return 20000;

else

return 40000;

}

public double phiBVMT()

{

return Dongia \* 0.05;

}

public double phiTC()

{

return Dongia \* 0.04;

}

}

class gheluoi : gheHP, IphiBS

{

int dientich;

public override double thue()

{

return 0.30 \* Dongia;

}

public override double phiQBSP()

{

if (dientich>10)

return 50000;

else

return 0;

}

public double phiBVMT()

{

return Dongia \* 0.03;

}

public double phiTC()

{

return Dongia \* 0.02;

}

}