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//=====
// BSM 103 - Programlamaya Giriş Dersi
// 2019-2020 Güz Dönemi
//=====
#include <iostream>
#include <cmath>

using namespace std;

#include "KarmasikSayi.h"

const float PI = 3.14;

KarmasikSayi::KarmasikSayi()
{
    cout << "Yapici calisti!...";
    this->setGercel(0.0);
    this->setSanal(0.0);
    //sanal=0.0;
    //gercel=0.0;
}

KarmasikSayi::KarmasikSayi(double sayi1, double sayi2)://:gercel(sayi1), sanal(sayi2)
{
    cout << "Yapici calisti!...";

    this->setGercel(sayi1);
    this->setSanal(sayi2);
}

KarmasikSayi::~KarmasikSayi()
{
    cout << "Yikici Calisti!...";
}

double KarmasikSayi::getGercel() // const
{
    return gercel;
}

void KarmasikSayi::setGercel(double gercel)
{
    this->gercel = gercel;
}

double KarmasikSayi::getSanal() // const
{
    return sanal;
}

void KarmasikSayi::setSanal(double sanal)
{
    this->sanal = sanal;
}

void KarmasikSayi::kartezyenGoster()
{
    cout << "Sayinin degeri: " << getGercel() << "+" << getSanal() << "i" << endl;
}

void KarmasikSayi::bilgiGir()
{
    double gercel1, sanal1;
    cout << "Sayinin gercel kismini giriniz:";
    cin >> gercel1; setGercel(gercel1);
    cout << "Sayinin sanal kismini giriniz:";
    cin >> sanal1; setSanal(sanal1);
}

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}  
  
void KarmasikSayi::karmasikTopla(KarmasikSayi a)  
{  
    cout << "\\Toplam => " << gercel + a.gercel << " + "  
        << sanal + a.sanal << "i";  
}  
  
KarmasikSayi KarmasikSayi::karmasikTopla(KarmasikSayi a, KarmasikSayi b)  
{  
    KarmasikSayi c;  
    c.gercel = a.gercel + b.gercel;  
    c.sanal = a.sanal + b.sanal;  
  
    return c;  
}
```