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FAKULTAS: Sains dan Teknologi

PRODI: Informatika

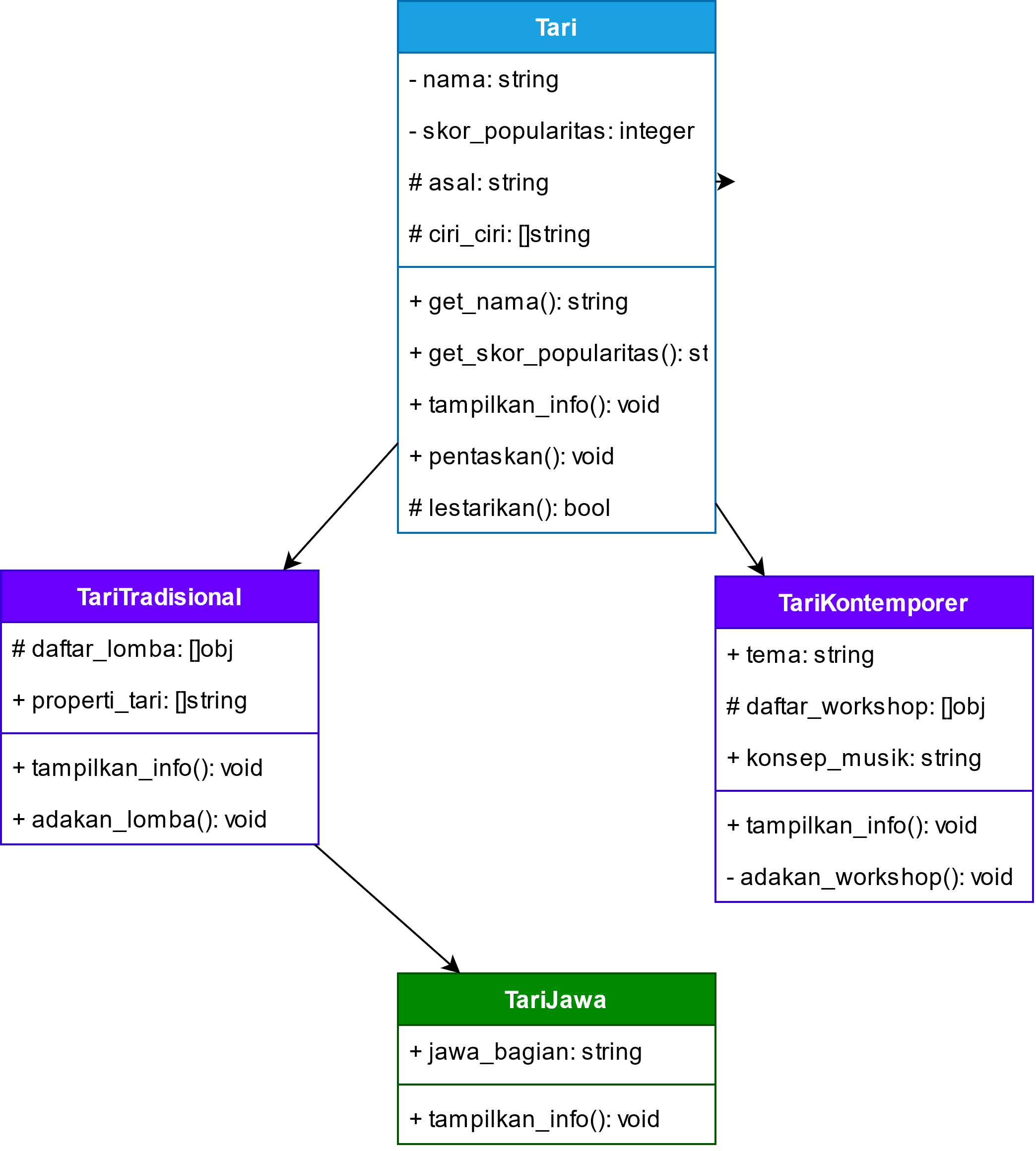
KELAS: Pemrograman Berorientasi Objek Praktik (VII)

RUANGAN: L.K 2.3

TEMA: Seni dan Budaya

SISTEM MANAJEMEN TARI

1. Class Diagram



2. Kode program

"""

SISTEM MANAJEMEN TARI

"""

import random

class Tari:

    def \_\_init\_\_(self, nama, skor\_popularitas, asal, ciri\_ciri):

        self.\_\_nama = nama

        self.\_\_skor\_popularitas = skor\_popularitas

        self.\_asal = asal

        self.\_ciri\_ciri = ciri\_ciri

    def get\_nama(self):

        return self.\_\_nama

    def get\_skor\_popularitas(self):

        return self.\_\_skor\_popularitas

    def tampilkan\_info(self):

        print("===== Informasi Tari =====")

        print("Nama: ", self.\_\_nama)

        print("Skor Popularitas: ", self.\_\_skor\_popularitas)

        print("Asal: ", self.\_asal)

        print("Ciri-ciri: ", self.\_ciri\_ciri)

    def pentaskan(self):

        print(f"{self.get\_nama()} sedang dipentaskan")

        self.\_\_skor\_popularitas += random.randint(1, 100)

    def \_lestarikan(self):

        print(f"{self.get\_nama()} sedang dilestarikan")

        keberhasilan = random.randint(1, 10)

        if keberhasilan > 5:

            self.\_\_skor\_popularitas += keberhasilan

            print(f"{self.get\_nama()} berhasil dilestarikan!")

            return True

        else:

            print(f"Upaya pelestarian {self.get\_nama()} gagal!")

            return False

class TariTradisional(Tari):

    def \_\_init\_\_(self, properti\_tari, nama, skor\_popularitas, asal, ciri\_ciri):

        super().\_\_init\_\_(nama, skor\_popularitas, asal, ciri\_ciri)

        self.\_daftar\_lomba = []

        self.properti\_tari = properti\_tari  # list

    def tampilkan\_info(self):

        super().tampilkan\_info()

        print("Properti Tari: ", self.properti\_tari)

        print("Daftar Lomba Yang Pernah Diadakan: ")

        for i in range(len(self.\_daftar\_lomba)):

            print(f"    {i + 1}. ", self.\_daftar\_lomba[i])

    def adakan\_lomba(self, judul\_lomba, tanggal, lokasi):

        lomba = {"judul\_lomba": judul\_lomba, "tanggal": tanggal, "lokasi": lokasi}

        self.\_daftar\_lomba.append(lomba)

        print(f"Lomba {judul\_lomba} berhasil diselenggarakan!")

class TariKontemporer(Tari):

    def \_\_init\_\_(self, tema, konsep\_musik, nama, skor\_popularitas, asal, ciri\_ciri):

        super().\_\_init\_\_(nama, skor\_popularitas, asal, ciri\_ciri)

        self.tema = tema

        self.konsep\_musik = konsep\_musik

        self.\_daftar\_workshop = []

    def tampilkan\_info(self):

        super().tampilkan\_info()

        print("Tema: ", self.tema)

        print("Konsep Musik: ", self.konsep\_musik)

        print("Daftar Workshop Yang Pernah Diadakan: ")

        for i in range(len(self.\_daftar\_workshop)):

            print(f"    {i + 1}. ", self.\_daftar\_workshop[i])

    def \_\_adakan\_workshop(self, judul\_workshop, tanggal, lokasi):

        workshop = {

            "judul\_workshop": judul\_workshop,

            "tanggal": tanggal,

            "lokasi": lokasi,

        }

        self.\_daftar\_workshop.append(workshop)

        print(f"Workshop {judul\_workshop} berhasil diselenggarakan!")

class TariJawa(TariTradisional):

    def \_\_init\_\_(

        self, jawa\_bagian, properti\_tari, nama, skor\_popularitas, asal, ciri\_ciri

    ):

        super().\_\_init\_\_(properti\_tari, nama, skor\_popularitas, asal, ciri\_ciri)

        self.jawa\_bagian = jawa\_bagian

    def tampilkan\_info(self):

        super().tampilkan\_info()

        print("Jawa Bagian: ", self.jawa\_bagian)

tari\_jaipong = TariTradisional(

    ["Kipas", "Selendang"],

    "Tari Jaipong",

    100,

    "Jawa Barat",

    "Gerakan yang dinamis namun lemah gemulai",

)

korean\_dance = TariKontemporer(

    "Korea",

    "Musik K-Pop",

    "Korean Dance",

    100,

    "Korea",

    "Gerakan yang dinamis dan lincah",

)

tari\_topeng = TariJawa(

    "Jawa Barat",

    ["Topeng", "Kipas"],

    "Tari Topeng",

    100,

    "Jawa Barat",

    "Gerakan yang gagah dan dinamis",

)

print("=" \* 70)

for tari in [tari\_jaipong, korean\_dance, tari\_topeng]:

    tari.pentaskan()

    print()

    tari.\_lestarikan()

    print()

    if isinstance(tari, TariTradisional):

        for \_ in range(random.randint(3, 5)):

            lomba\_ke\_n = random.randint(1, 10)

            while lomba\_ke\_n in [lomba["judul\_lomba"] for lomba in tari.\_daftar\_lomba]:

                lomba\_ke\_n = random.randint(1, 10)

            tari.adakan\_lomba(

                f"Lomba {tari.get\_nama()}-{lomba\_ke\_n}",

                f"{random.randint(1,31)}-{random.randint(1,12)}-202{random.randint(1,5)}",

                "DKI Jakarta",

            )

        print()

    elif isinstance(tari, TariKontemporer):

        for \_ in range(random.randint(3, 5)):

            workshop\_ke\_n = random.randint(1, 10)

            while workshop\_ke\_n in [

                workshop["judul\_workshop"] for workshop in tari.\_daftar\_workshop

            ]:

                workshop\_ke\_n = random.randint(1, 10)

            tari.\_TariKontemporer\_\_adakan\_workshop(

                f"Workshop {tari.get\_nama()}-{workshop\_ke\_n}",

                f"{random.randint(1,31)}-{random.randint(1,12)}-202{random.randint(1,5)}",

                "DKI Jakarta",

            )

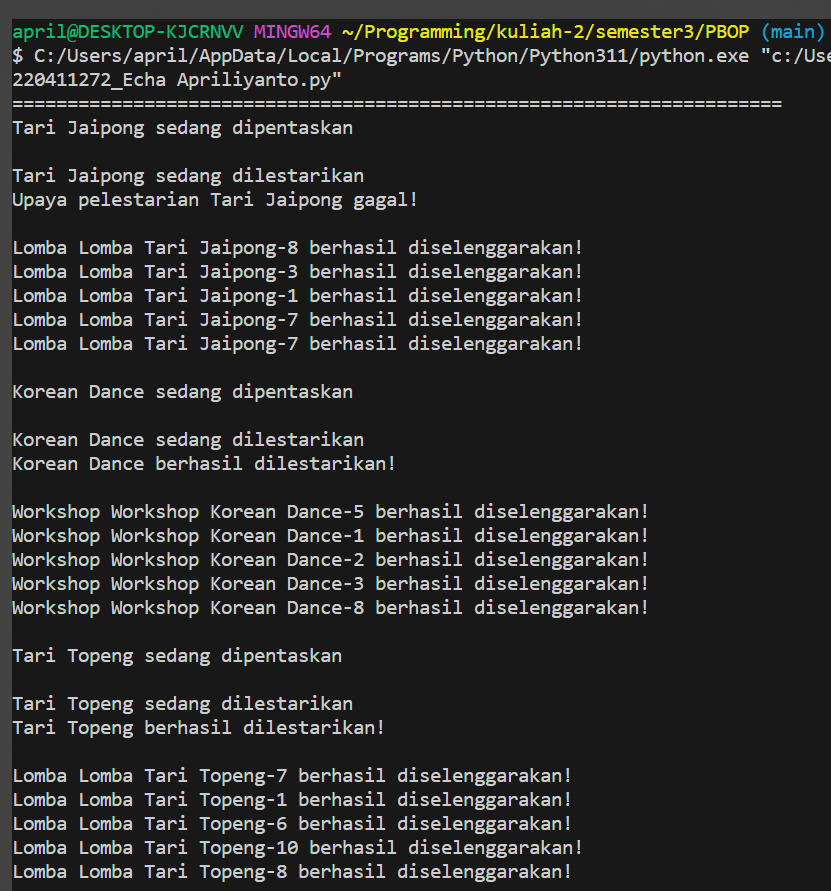
        print()

for tari in [tari\_jaipong, korean\_dance, tari\_topeng]:

    tari.tampilkan\_info()

    print("")

3. Screenshot Hasil Running Program



A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated