

Nama : Abdurrohman

Nim : 210511035

Kelas :R1(TI21A)

Kelas : R1

Soal Praktikum

script.py

*#Nama :Abdurrohman*

*#Nim  :210511035*

*#kelas:R1(TI21A)*

class **Elektronik**:

    def **\_\_init\_\_**(self, brand, warna):

        self.brand = brand

        self.warna = warna

    def **turnOn**(self):

**print**(self.brand, " Menyala")

class **Laptop**(**Elektronik**):

    def **\_\_init\_\_**(self, brand, warna, OS):

**super**().**\_\_init\_\_**(brand, warna)

        self.OS = OS

    def **splashScreen**(self):

**print**("Menggunakan OS ", self.OS)

lapotpSatu = **Laptop**("Asus", "Hitam", "Windows")

lapotpSatu.**turnOn**()  *# output: Kitty bergerak*

lapotpSatu.**splashScreen**()  *# output: Meow!*

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class **Tumbuhan**:

    def **\_\_init\_\_**(self, namaIlmiah, warna):

        self.namaIlmiah = namaIlmiah

        self.warna = warna

    def **fotosintesis**(self):

**print**(self.namaIlmiah, "Sedang berfotosintesis")

class **Bunga**(**Tumbuhan**):

    def **\_\_init\_\_**(self, namaIlmiah, warna, jenisBunga):

**super**().**\_\_init\_\_**(namaIlmiah, warna)

        self.jenisBunga = jenisBunga

    def **mekar**(self):

**print**("Bunga ", self.jenisBunga, "sedang mekar")

bungaSatu = **Bunga**("Rosa", "Merah", "Mawar")

bungaSatu.**fotosintesis**()  *# output: Kitty bergerak*

bungaSatu.**mekar**()  *# output: Meow!*

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class **Siswa**:

    def **\_\_init\_\_**(self, nama, nis):

        self.nama = nama

        self.nis = nis

    def **belajar**(self):

**print**(self.nama, "sedang belajar")

class **Pekerja**:

    def **\_\_init\_\_**(self, nama, pekerjaan):

        self.nama = nama

        self.pekerjaan = pekerjaan

    def **bekerja**(self):

**print**(self.nama, "sedang bekerja")

class **SiswaPekerja**(**Siswa**, **Pekerja**):

    def **\_\_init\_\_**(self, nama, nis, pekerjaan):

**Siswa**.**\_\_init\_\_**(self, nama, nis)

**Pekerja**.**\_\_init\_\_**(self, nama, pekerjaan)

    def **bersosialisasi**(self):

**print**(self.nama, "sedang bersosialisasi")

Siswa\_pekerja = **SiswaPekerja**("Abdurrohman", "21020", "Programmer")

Siswa\_pekerja.**belajar**() *# output: Rahma sedang belajar*

Siswa\_pekerja.**bekerja**() *# output: Rahma sedang bekerja*

Siswa\_pekerja.**bersosialisasi**() *# output: Rahma sedang bersosialisasi*

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class **Dokter**:

    def **\_\_init\_\_**(self, nama, nip):

        self.nama = nama

        self.nis = nip

    def **periksa**(self):

**print**(self.nama, "sedang memeriksa pasien")

class **Spesialis**:

    def **\_\_init\_\_**(self, gelar, tempat):

        self.gelar = gelar

        self.tempat = tempat

    def **bekerja**(self):

**print**(self.tempat, "praktek sedang buka")

class **DokterSpesialis**(**Dokter**, **Spesialis**):

    def **\_\_init\_\_**(self, nama, nip, gelar, tempat):

**Dokter**.**\_\_init\_\_**(self, nama, nip)

**Spesialis**.**\_\_init\_\_**(self, gelar, tempat)

    def **seminar**(self):

**print**(self.nama, self.gelar ,"sedang memberikan seminar")

DokterSpesialis\_Satu = **DokterSpesialis**("Abdurrohman", "21020", "(SpKg)", "Cirebon")

DokterSpesialis\_Satu.**periksa**() *# output: Rahma sedang belajar*

DokterSpesialis\_Satu.**bekerja**() *# output: Rahma sedang bekerja*

DokterSpesialis\_Satu.**seminar**() *# output: Rahma sedang bersosialisasi*

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class **Animal**:

    def **\_\_init\_\_**(self, name):

        self.name = name

    def **speak**(self):

**print**("The animal speaks")

class **fish**(**Animal**):

    def **\_\_init\_\_**(self, name, breed):

**super**().**\_\_init\_\_**(name)

        self.breed = breed

    def **speak**(self):

**print**("The dog barks")

class **shark**(**fish**):

    def **\_\_init\_\_**(self, name, breed, origin):

**super**().**\_\_init\_\_**(name, breed)

        self.origin = origin

    def **speak**(self):

**print**("The shark bite")

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class **nakes**:

    def **\_\_init\_\_**(self, name, age):

        self.name = name

        self.age = age

    def **get\_details**(self):

**print**(f"Name: {self.name}, Age: {self.age}")

class **dokter**(**nakes**):

    def **\_\_init\_\_**(self, name, age, id, salary):

**super**().**\_\_init\_\_**(name, age)

        self.id = **id**

        self.salary = salary

    def **get\_details**(self):

**super**().**get\_details**()

**print**(f"ID: {self.id}, Salary: {self.salary}")

class **spesialis**(**dokter**):

    def **\_\_init\_\_**(self, name, age, id, salary, praktek):

**super**().**\_\_init\_\_**(name, age, **id**, salary)

        self.praktek = praktek

    def **get\_details**(self):

**super**().**get\_details**()

**print**(f"praktek: {self.praktek}")

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class **Animal**:

    def **\_\_init\_\_**(self, name, color):

        self.name = name

        self.color = color

    def **get\_name**(self):

        return self.name

    def **get\_color**(self):

        return self.color

class **Mammal**(**Animal**):

    def **\_\_init\_\_**(self, name, color, fur):

**super**().**\_\_init\_\_**(name, color)

        self.fur = fur

    def **get\_fur**(self):

        return self.fur

class **Bird**(**Animal**):

    def **\_\_init\_\_**(self, name, color, wingspan):

**super**().**\_\_init\_\_**(name, color)

        self.wingspan = wingspan

    def **get\_wingspan**(self):

        return self.wingspan

*# Hierarchical Inheritance*

class **Reptile**(**Mammal**):

    def **\_\_init\_\_**(self, name, color, fur, scale):

**super**().**\_\_init\_\_**(name, color, fur)

        self.scale = scale

    def **get\_scale**(self):

        return self.scale

ReptileSatu = **Reptile**("Buaya", "Green", "No", "Big")

**print**(ReptileSatu.**get\_name**())

**print**(ReptileSatu.**get\_color**())

**print**(ReptileSatu.**get\_fur**())

**print**(ReptileSatu.**get\_scale**())

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class **nakes**:

    def **\_\_init\_\_**(self, name, age, gaji):

        self.name = name

        self.age = age

        self.gaji = gaji

    def **get\_name**(self):

        return self.name

    def **get\_age**(self):

        return self.age

    def **get\_gaji**(self):

        return self.gaji

class **dokter**(**nakes**):

    def **\_\_init\_\_**(self, name, age, gaji, department):

**super**().**\_\_init\_\_**(name, age, gaji)

        self.department = department

    def **get\_department**(self):

        return self.department

class **perawat**(**nakes**):

    def **\_\_init\_\_**(self, name, age, gaji, jabatan):

**super**().**\_\_init\_\_**(name, age, gaji)

        self.jabatan = jabatan

    def **get\_language**(self):

        return self.jabatan

*# Hierarchical Inheritance*

class **SeniorPerawat**(**perawat**):

    def **\_\_init\_\_**(self, name, age, gaji, jabatan, level):

**super**().**\_\_init\_\_**(name, age, gaji, jabatan)

        self.level = level

    def **get\_level**(self):

        return self.level

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class **sekolahan**:

    def **\_\_init\_\_**(self, nama, umur):

        self.nama = nama

        self.umur = umur

*# Single Inheritance*

class **guru**:

    def **mengajar**(self):

**print**("guru mengajar: ", self.nama, self.umur)

*# Single Inheritance*

class **murid**:

    def **duduk**(self, belajar, mengajar):

        self.nama = belajar

        self.umur = mengajar

*# Multiple Inheritance*

class **walimurid**(**sekolahan**, **guru**, **murid**):

    def **\_\_init\_\_**(self, nama, umur):

**super**().**\_\_init\_\_**(nama, umur)

    def **update**(self):

        self.**mengajar**(1, 1)

        self.**duduk**()

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**print**('\nHybrid Inheritance\n\n')

*# Hybrid Inheritance*

class **vehicle**:

    def **\_\_init\_\_**(self,name,model):

        self.name = name

        self.model = model

    def **show\_details**(self):

**print**(f'\nName : {self.name}')

**print**(f'Model : {self.model}')

class **bike**(**vehicle**):

*# Inherit Properties and Override*

    def **\_\_init\_\_**(self,name,model,type):

**super**().**\_\_init\_\_**(name,model)

        self.type = **type**

*# Inherit Behavior and Override*

    def **show\_details**(self):

**super**().**show\_details**()

**print**(f'Album : {self.type}\n')

*# Method of Derived Class*

    def **info**(self):

**print**(f'{self.name} {self.model} mengeluarkan type terbarunya yaitu {self.type}')

class **car**(**bike**,**vehicle**):

    def **info**(self):

**print**('\n\n\t\t\tNEWS!!!\t\t\t\n\n')

bajaj = **car**("honda","civic","type r")

bajaj.**show\_details**()

bajaj.**info**()

motor1 = **bike**("mitsubishi","evo","2")

motor1.**info**()

motor1.**show\_details**()

SECREENSHOT single1.PY



