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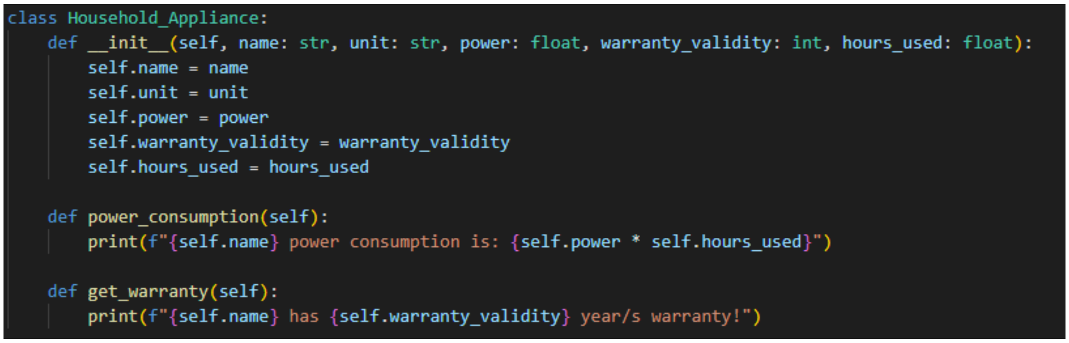
BSCS 2 – 1

HOUSEHOLD APPLIANCES

-name: str
-unit: str
-power: int
-warranty_validity: int
-hours_used: int

+power_consumption ()
+get_warranty ()

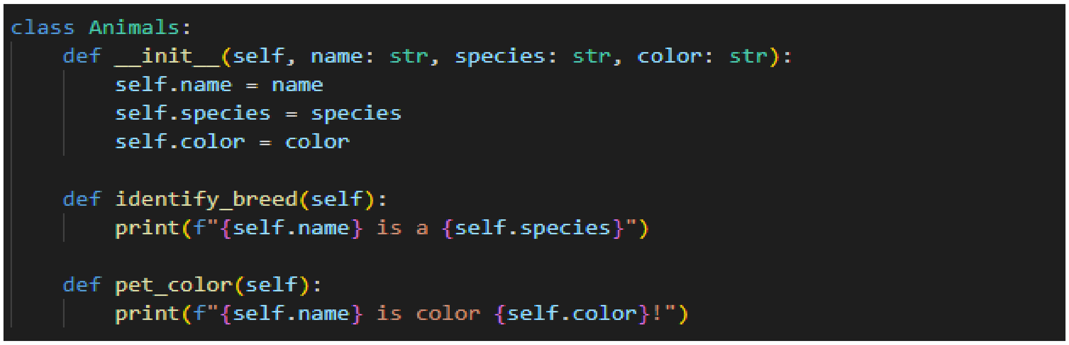


```python
class Household_Appliance:
    def __init__(self, name: str, unit: str, power: float, warranty_validity: int, hours_used: float):
        self.name = name
        self.unit = unit
        self.power = power
        self.warranty_validity = warranty_validity
        self.hours_used = hours_used

    def power_consumption(self):
        print(f"{self.name} power consumption is: {self.power * self.hours_used}")

    def get_warranty(self):
        print(f"{self.name} has {self.warranty_validity} year/s warranty!")
```

ANIMALS

-name: str
-species: str
-color: int

+identify_breed
+pet_color

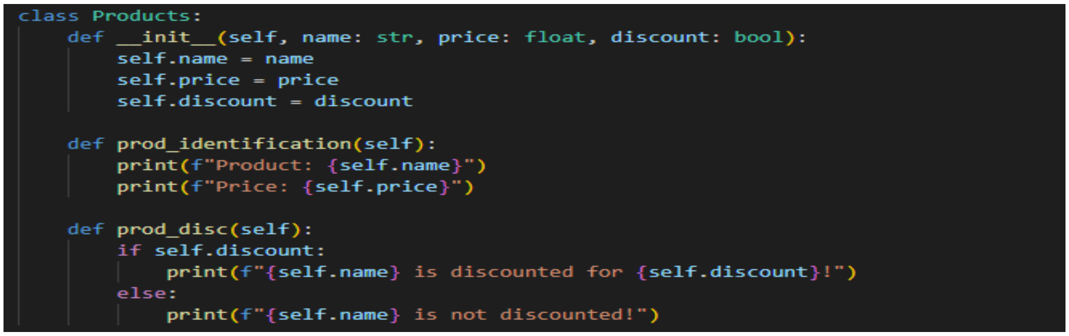


```python
class Animals:
    def __init__(self, name: str, species: str, color: str):
        self.name = name
        self.species = species
        self.color = color

    def identify_breed(self):
        print(f"{self.name} is a {self.species}")

    def pet_color(self):
        print(f"{self.name} is color {self.color}!")
```

PRODUCTS

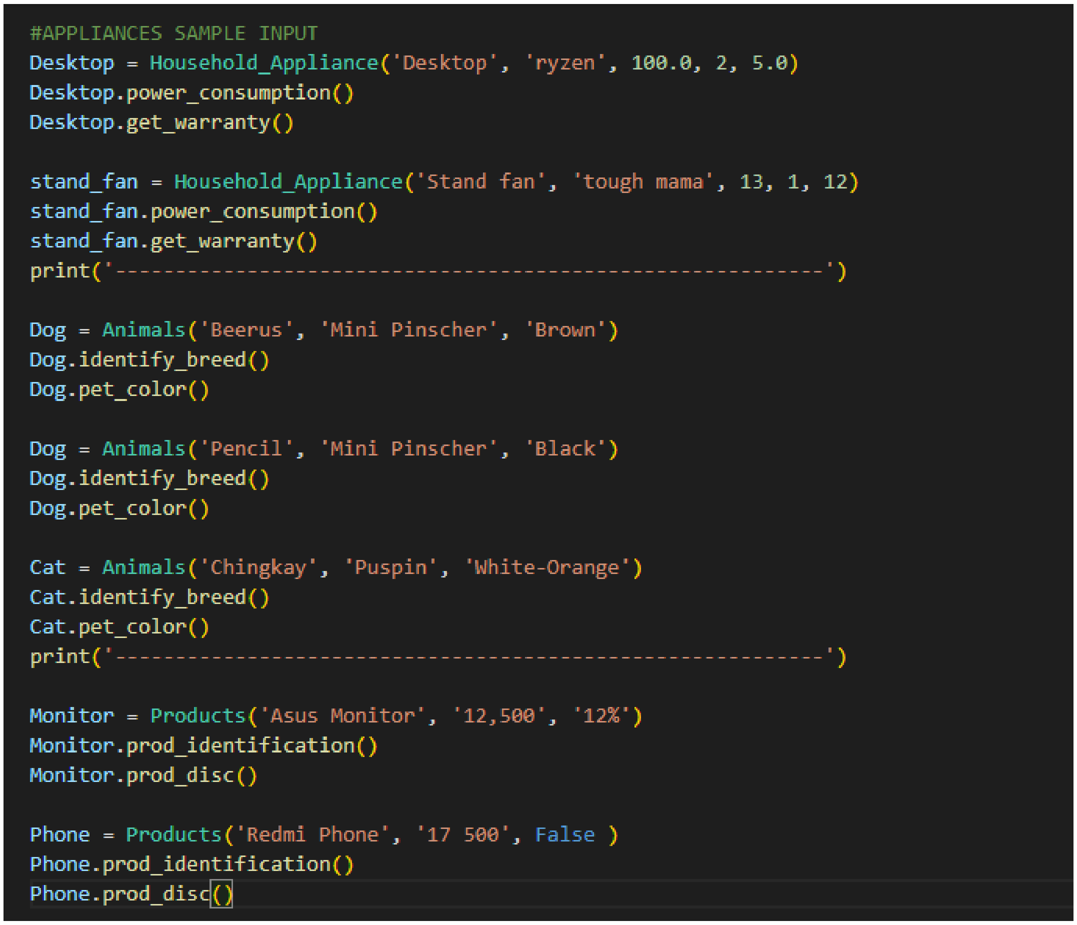
-name: str
-price: float
-discount: bool

+prod_identification
+prod_disc

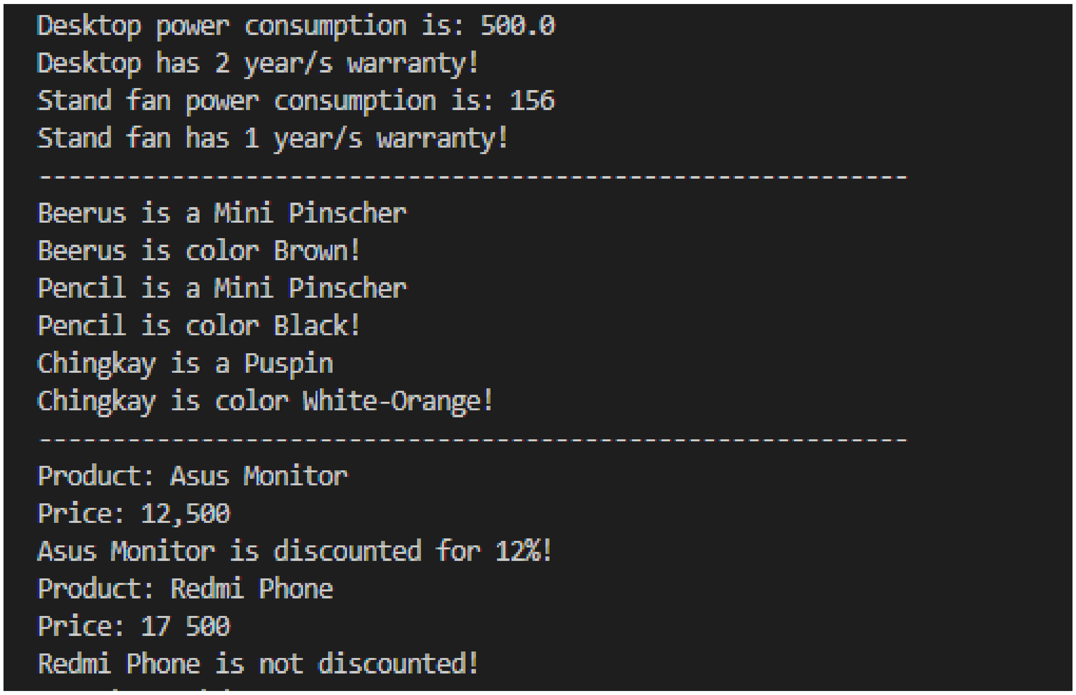


```python
class Products:
    def __init__(self, name: str, price: float, discount: bool):
        self.name = name
        self.price = price
        self.discount = discount

    def prod_identification(self):
        print(f"Product: {self.name}")
        print(f"Price: {self.price}")

    def prod_disc(self):
        if self.discount:
            print(f"{self.name} is discounted for {self.discount}!")
        else:
            print(f"{self.name} is not discounted!")
```

OUTPUT:



```
#APPLIANCES SAMPLE INPUT
Desktop = Household_Appliance('Desktop', 'ryzen', 100.0, 2, 5.0)
Desktop.power_consumption()
Desktop.get_warranty()

stand_fan = Household_Appliance('Stand fan', 'tough mama', 13, 1, 12)
stand_fan.power_consumption()
stand_fan.get_warranty()
print('-----------------------------------------------------------')

Dog = Animals('Beerus', 'Mini Pinscher', 'Brown')
Dog.identify_breed()
Dog.pet_color()

Dog = Animals('Pencil', 'Mini Pinscher', 'Black')
Dog.identify_breed()
Dog.pet_color()

Cat = Animals('Chingkay', 'Puspin', 'White-Orange')
Cat.identify_breed()
Cat.pet_color()
print('-----------------------------------------------------------')

Monitor = Products('Asus Monitor', '12,500', '12%')
Monitor.prod_identification()
Monitor.prod_disc()

Phone = Products('Redmi Phone', '17 500', False )
Phone.prod_identification()
Phone.prod_disc()
```



```
Desktop power consumption is: 500.0
Desktop has 2 year/s warranty!
Stand fan power consumption is: 156
Stand fan has 1 year/s warranty!
-----------------------------------------------------------
Beerus is a Mini Pinscher
Beerus is color Brown!
Pencil is a Mini Pinscher
Pencil is color Black!
Chingkay is a Puspin
Chingkay is color White-Orange!
-----------------------------------------------------------
Product: Asus Monitor
Price: 12,500
Asus Monitor is discounted for 12%!
Product: Redmi Phone
Price: 17 500
Redmi Phone is not discounted!
```