

## **Answers for Debugging Exercises: Chapter 9**

### **Find the Output**

1. class Employee:

```

    deptt = 'IT'

    def __init__(self, name):

        self.name = name

E1 = Employee('Raghav')

print(E1.name, end=" ")

print(E1.deptt)
```

**Ans.**

Raghav IT

2. class Car:

```

    def __init__(self, company, model):

        self.company = company

        self.model = model

Dzire = Car('Maruti', 'Swift Dzire ZX')

print(Dzire.model)
```

**Ans.** Swift Dzire ZX

3. class Car:

```

    company = "Maruti"

    def __init__(self, model, year = 2016):

        self.model = model

        self.year = year

    def display(self):

        print("Company - %s, Model - %s, Year - %d" %(self.company,
self.model, self.year))

Dzire = Car('Swift Dzire ZX')
```

```
Dzire.display()
```

**Ans.** Company - Maruti, Model - Swift Dzire ZX, Year - 2016

4. class ABC():

```
    def __init__(self, var):
```

```
        self.__var = var
```

```
    def display(self):
```

```
        print("From class method, Var = ", self.__var)
```

```
obj = ABC(10)
```

```
obj.display()
```

**Ans.** From class method, Var = 10

5. class Person():

```
    def __init__(self, name):
```

```
        self.__name = name
```

```
    def __display(self):
```

```
        print("Good Morning ", self.__name)
```

```
    def greet(self):
```

```
        self.__display()
```

```
obj = Person("Roy")
```

```
obj.greet()
```

**Ans.** Good Morning Roy

6. class ABC:

```
    __var=7
```

```
    def display(self):
```

```
        print(self.__var)
```

```
a = ABC()
```

```
a.display()
```

```
print(a._ABC__var)
```

**Ans.** 7

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## Find the Error

1.

```
class Car:

    def __init__(self, company, model):

        self.company = company

        self.model = model

Dzire = Car('Maruti', 'Swift Dzire ZX')

print(Dzire.model)

print(Dzire.mfg_years)
```

**Ans.** AttributeError: 'Car' object has no attribute 'mfg\_years'

2.

```
class Car:

    def __init__(self, company, model):

        self.company = company

        self.model = model

    def display(self):

        print("Company - %s, Model - %s" %(self.company, self.model))

Dzire = Car('Maruti', 'Swift Dzire ZX')

del Dzire

Dzire.display()
```

**Ans.** NameError: name 'Dzire' is not defined

3.

```
class Car:

    def __init__(self, company, model):
```

```

        self.company = company

        self.model = model

    def display(self):

        print("Company - %s, Model - %s" %(self.company, self.model))

Dzire = Car('Maruti', 'Swift Dzire ZX')

del Dzire.model

Dzire.display()

```

**Ans.** AttributeError: 'Car' object has no attribute 'model'

**4.** class Car:

```

    def __init__(self, company, model):

        self.company = company

        self.model = model

    def display(self):

        print("Company - %s, Model - %s" %(self.company, self.model))

Dzire = Car('Maruti', 'Swift Dzire ZX')

del Dzire.display

Dzire.display()

```

**Ans.** AttributeError: 'display'

**5.**

```

class Car:

    def __init__(self, company, model):

        self.company = company

        self.model = model

    def display(self):

        print("Company - %s, Model - %s" %(self.company, self.model))

Dzire = Car('Maruti', 'Swift Dzire ZX')

del Dzire

```

```
Dzire.display()
```

**Ans.** `NameError: name 'Dzire' is not defined`

**6.**

```
class ABC():
    def __init__(self, var):
        self.__var = var
    def display(self):
        print("From class method, Var = ", self.var)
```

```
obj = ABC(10)
```

```
obj.display()
```

```
print("From main module, Var = ", obj.__var)
```

**Ans.** `AttributeError: 'ABC' object has no attribute 'var'`

**7.**

```
class ABC():
    def __init__(self, var):
        self.__var = var
    def __display(self):
        print("From class method, Var = ", self.__var)
```

```
obj = ABC(10)
```

```
obj.__display()
```

**Ans.** `AttributeError: 'ABC' object has no attribute '__display'`