

Clan

Student Application Form PDF

1. Personal Information

- Full Name: _____
- Date of Birth: _____
- Gender: ☐ Male ☐ Female ☐ Other
- Address: _____
- City: _____
- State: _____
- Zip Code: _____
- Phone Number: _____
- Email Address: _____

Card serial number: 12 0000 4567882 xs6788 91

First name: Berta

Last name: Rodriguez

Place of study: Tirso de Molina High School

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Nationality: Spanish

Date of birth: 11/6/97



blue print
template

CLASS

Make
object

Object of
Clan "student"


```
[59]: class StudentApplicationForm:
      def __init__(self, name, roll_no, city):
          self.name = name
          self.roll_number = roll_no
          self.city = city

      def study(self):
          print(self.name, 'is studying')
```

Template

```
[60]: ritwik = StudentApplicationForm('Ritwik', 1, 'Bangalore')
```

```
[61]: velavan = StudentApplicationForm('Velavan', 2, 'Chennai')
```

```
[62]: mohit = StudentApplicationForm('Mohit', 3, 'Jaipur')
```

Actual
Object

```
[63]: velavan.study()
      Velavan is studying
```

```
[64]: mohit.study()
      Mohit is studying
```

```
[65]: ritwik.study()
      Ritwik is studying
```



```
[ ]: # Inheritance
```

```
[70]: class Animal:
      def __init__(self, name):
          self.name = name

      def speak(self):
          print(self.name, 'is a animal and it speaks!')
```

```
[ ]: class Dog(Animal):
      def speak(self):
          print(self.name, 'Woof Woof!!!')
```

```
[74]: class Cat(Animal):
      def speak(self):
          print(self.name, "Meow Meow!!!")
```

```
[77]: yuki = Dog("Yuki")

      yuki.speak()
```

Yuki Woof Woof!!

```
[78]: martin = Cat("Martin")

      martin.speak()
```

Martin Meow Meow!!


Parent Class

2 Child
Classes


```
[79]: class Animal:
      def __init__(self, name):
          self.name = name

      def speak(self):
          print(self.name, 'is a animal and it speaks!')


      def eat(self):
          print(self.name, 'is eating')
```



```
[80]: class Dog(Animal):
      def speak(self):
          print(self.name, 'Woof Woof!!!')
```

```
[81]: class Cat(Animal):
      def speak(self):
          print(self.name, "Meow Meow!!!")
```

```
[85]: for animal in [yuki, martin]:
      animal.eat()
```



Yuki is eating
Martin is eating

eat present? X

Override

Polymorphism, in general, means existing in multiple forms. The specific meaning varies depending on the context, but it generally refers to the ability of something to take on different forms or appearances. In computer science, it often

```
[79]: class Animal:
      def __init__(self, name):
          self.name = name
```

```
      def speak(self):
          print(self.name, 'is a animal and it speaks!')
```

```
      def eat(self):
          print(self.name, 'is eating')
```

```
[91]: class Dog(Animal):
      def speak(self):
          print(self.name, 'Woof Woof!!')
```

```
      def eat(self):
          print('Dog', self.name, 'is eating happily')
```

```
[92]: class Cat(Animal):
      def speak(self):
          print(self.name, "Meow Meow!!")
```

```
[93]: yuki = Dog("Yuki")
      martin = Cat("Martin")
      for animal in [yuki, martin]:
          animal.eat()
```

```
Dog Yuki is eating happily
Martin is eating
```

eat() is behaving
different for
diff object

Eat() present

Eat print()