

Object In Dart

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Instantiation

การสร้าง instantiation คือ กระบวนการสร้าง instance
 ของ class หรือจะบอกได้ว่าการสร้าง instantiation เป็น
 กระบวนการสร้าง object ของ class







Declaring Object

ClassName objectName = ClassName();

Example

```
class Bicycle {
  String? color;
  int? size;
  int? currentSpeed;
  void changeGear(int newValue) {
      currentSpeed = newValue;
  void display() {
      print("Color: $color");
      print("Size: $size");
      print("Current Speed:
      $currentSpeed");
```

```
void main(){
  Bicycle bicycle1 = Bicycle();
  bicycle1.color = "Red";
  bicycle1.size = 26;
  bicycle1.currentSpeed = 0;
  bicycle1.changeGear(5);
  bicycle1.display();
}
```



เมื่อสร้างวัตถุแล้ว สามารถเข้าถึง property และ method ของ object ได้โดยใช้ dot (.)

Output

Color: Red Size: 26

Current Speed: 5

```
class Car {
   String? name;
   String? color;
   int? numberOfSeats;
   void start() {
       print("$name Car Started.");
   }
}
```

car1 Audi Car2

Example

```
void main(){
   Car car1 = Car();
   car1.name = "BMW";
   car1.color = "Red";
   car1.numberOfSeats = 4;
   car1.start();
   Car car2 = Car();
   car2.name = "Audi";
   car2.color = "Blue";
   car2.numberOfSeats = 6;
   car2.start();
```

Output

BMW Car Started.
Audi Car Started.

Difference Between Dart, Java, Python

```
class Student {
   String? name;
   int? age;
   int? rollNo;
   void showStdInfo() {
      print("Student Name is : $name");
      print("Student Age is : $age");
      print("Student Roll Number is : $rollNo");
   }
}
```

```
void main () {
   Student std = Student();
   std.name = "Peter";
   std.age = 24;
   std.rollNo= 90001;
   std.showStdInfo();
}
```





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```
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```

```
class Student {
   String name;
   int age;
   int rollNo;
  void showStdInfo() {
      System.out.println("Student Name is: " + name);
      System.out.println("Student Age is: " + age);
      System.out.println("Student Roll Number is: " +
                         rollNo);
```

```
public class Main {
   public static void main(String[] args) {
      Student std = new Student();
      std.name = "Peter";
      std.age = 24;
      std.rollNo = 90001;
```

std.showStdInfo();

```
class Student:
    def __init__(self):
        self.name = ""
        self.age = 0
        self.rollNo = 0
    def showStdInfo(self):
        print("Student Name is:", self.name)
        print("Student Age is:", self.age)
        print("Student Roll Number is:", self.rollNo)
```

```
std = Student()
std.name = "Peter"
std.age = 24
std.rollNo = 90001
std.showStdInfo()
```

ใน Python ไม่ต้องใส่คำว่า new ในการ สร้าง object





Student Name is: Peter

Student Age is: 24

Student Roll Number is: 90001

Thank You