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Passing Object as Parameter:

Output of the program:

```
Area of Rectangle : 200
```

Explanation :

- We can pass Object of any class as parameter to a method in java.
- We can access the instance variables of the object passed inside the called method.

```
area = r1.length * r1.width
```

 It is good practice to initialize instance variables of an object before passing object as parameter to method otherwise it will take default initial values.

Different Ways of Passing Object as Parameter:

Way 1: By directly passing Object Name

Way 2: By passing Instance Variables one by one

```
package com.pritesh.programs;
 class Rectangle {
     int length;
      int width;
     void area(int length, int width) {
          int areaOfRectangle = length * width;
          System.out.println("Area of Rectangle : "
                       + areaOfRectangle);
 class RectangleDemo {
     public static void main(String args[]) {
          Rectangle r1 = new Rectangle();
          Rectangle r2 = new Rectangle();
          r1.length = 20;
          r1.width = 10;
          r2.area(r1.length, r1.width);
Actually this is not a way to pass the object to method. but this program will explain you
```

how to pass instance variables of particular object to calling method.

Way 3: We can pass only public data of object to the Method.

Suppose we made width variable of a class private then we cannot update value in a main method since it does not have permission to access it.

```
private int width;
```

after making width private –

```
class RectangleDemo {
  public static void main(String args[]) {
    Rectangle r1 = new Rectangle();
    Rectangle r2 = new Rectangle();

  r1.length = 20;
  r1.width = 10;

  r2.area(r1.length, r1.width);
}
```