## Java basic problems

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Polymorphism:
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1.
class Shapes {
  public void area() {
    System.out.println("The formula for area of ");
  }
}
class Triangle extends Shapes {
  public void area() {
    System.out.println("Triangle is ½ * base * height ");
 }
}
class Circle extends Shapes {
  public void area() {
    System.out.println("Circle is 3.14 * radius * radius ");
  }
}
class Main {
  public static void main(String[] args) {
    Shapes myShape = new Shapes(); // Create a Shapes object
    Shapes myTriangle = new Triangle(); // Create a Triangle object
    Shapes myCircle = new Circle(); // Create a Circle object
    myShape.area();
    myTriangle.area();
    myShape.area();
   myCircle.area();
 }
}
2. Method Overloading :
class Shapes {
  public void area() {
    System.out.println("Find area ");
```

```
}
public void area(int r) {
    System.out.println("Circle area = "+3.14*r*r);
  }
public void area(double b, double h) {
    System.out.println("Triangle area="+0.5*b*h);
  }
public void area(int 1, int b) {
    System.out.println("Rectangle area="+1*b);
  }
}
class Main {
  public static void main(String[] args) {
    Shapes myShape = new Shapes();
    myShape.area();
    myShape.area(5);
    myShape.area(6.0,1.2);
    myShape.area(6,2);
  }
}
3. Method Overriding:
class Vehicle{
  void run(){System.out.println("Vehicle is moving");}
}
class Car2 extends Vehicle{
  void run(){System.out.println("car is running safely");}
```

```
public static void main(String args[]){
  Car2 obj = new Car2();//creating object
  obj.run();
  }
}
```