```
Program 1:
// program to demonstrate use of super keyword with constructors in multilevel
inheritance.
package javaLab.javaPractical;
public class dog {
    public static dog speak;
    protected String name;
    protected int age;
    public dog(String name, int age){
        this.name = name;
        this.age = age;
    public void speak(){
        System.out.println("I am " + this.name + " and my age is " + this.age)
public class cat extends dog{
    private String food;
    public cat(String name, int age, String food){
        super(name, age);
        this.food = food;
    public cat(String name, int age){
        super(name, age);
        this.food = "Food";
    public void speak(){
        System.out.println("I am " + this.name + " and my age is " + this.age
+ " and i eat this " + this.food);
```

```
public class dogCatMain {
    public static void main(String[] args) {
         dog dog01= new dog("Dog_1", 3);
         dog01.speak();
         dog dog02= new dog("Dog_2", 5);
         dog02.speak();
         dog dog03= new dog("Dog_3", 1);
         dog03.speak();
         System.out.println("\nAfter Super Keyword this Cat class can also use
the features of Dog Class >> \n");
         cat cat001 = new cat("Cat 1", 2);
         cat001.speak();
         cat cat002 = new cat("Cat_2", 1);
         cat002.speak();
         cat cat003 = new cat("Cat_3", 2);
         cat003.speak();
         System.out.println("\nAfter Super Keyword this Cat class can also use
the features of Dog Class and also modify it >> \n");
         cat cat004 = new cat("Cat_4", 1, "Cat_Food");
         cat004.speak();
    }
}
Output:
  PS C:\Users\ajeet\OneDrive\Documents\Java\Practice> & 'c:\Users\ajeet\.vscode\extensions\vscjava.vscode-java-debu
  I am Dog_1 and my age is 3
  I am Dog_2 and my age is 5
 I am Dog_3 and my age is 1
  After Super Keyword this Cat class can also use the features of Dog Class >>
 I am Cat_1 and my age is 2 and i eat this Food
  I am Cat_2 and my age is 1 and i eat this Food
  I am Cat_3 and my age is 2 and i eat this Food
  After Super Keyword this Cat class can also use the features of Dog Class and also modify it >>
  I am Cat_4 and my age is 1 and i eat this Cat_Food
```

PS C:\Users\ajeet\OneDrive\Documents\Java\Practice>

```
Program 2:
// Program to Handle Exception In a Super Class Methods
package javaLab.javaPractical;
public class superDogExH {
    void method() throws RuntimeException
        System.out.println("\nSuperClass Dog\n");
class subCatExH extends superDogExH {
    void method() throws ArithmeticException
        System.out.println("\nSubClass Cat\n");
    public static void main(String args[])
        try{
            superDogExH s = new subCatExH();
            s.method();
        catch(Exception e) {
            e.fillInStackTrace();
```

## Output:

```
SubClass Cat
```