**Day 14\_Java Assignment**

**1. Problem Description:**

What is Super keyword?

**2. My Solution:**

Super() is a Java keyword used to call a superclass constructor. Super accesses superclass members and maintains inheritance hierarchies.

**Usage of super keyword:**

* Super can be used to refer immediate parent class instance variable.
* Super can be used to invoke immediate parent class method.
* super() can be used to invoke immediate parent class constructor.

**Examples:**

**1. Use of super with Variables:**

**package** daily\_assesment;

**class** Vehicle {

**int** maxSpeed = 120;

}

**class** Car **extends** Vehicle {

**int** maxSpeed = 180;

**void** display()

{

System.***out***.println("Maximum Speed: " + **super**.maxSpeed);

}

}

**public** **class** Test4 {

**public** **static** **void** main(String[] args) {

Car small = **new** Car();

small.display();

}

}

**Output:**

Maximum Speed: 120

**2. Use of super with Methods:**

**package** daily\_assesment;

**class** Person {

**void** message()

{

System.***out***.println("This is person class\n");

}

}

**class** Student **extends** Person {

**void** message()

{

System.***out***.println("This is student class");

}

**void** display()

{

message();

**super**.message();

}

}

**public** **class** Test5 {

**public** **static** **void** main(String[] args) {

Student s = **new** Student();

s. display();

}

}

**Output:**

This is student class

This is person class

**3. Use of super with constructors**

**package** daily\_assesment;

**class** Person1{

Person1()

{

System.***out***.println("Person class Constructor");

}

}

**class** Student1 **extends** Person1 {

Student1()

{

**super**();

System.***out***.println("Student class Constructor");

}

}

**public** **class** Test6 {

**public** **static** **void** main(String[] args) {

Student1 s = **new** Student1();

}

}

**Output:**

Person class Constructor

Student class Constructor