**Linear Depreciation Example**

**Source Code**

**import** java.util.Scanner;

**public** **class** LinearDepreciation

{

**public** **static** **void** PrintHeading()

{

System.*out*.println("Year\t" + "Accumulated\t" + "book");

System.*out*.println("----\t" + "-----------\t" + "----");

}

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

{

Scanner sc = **new** Scanner(System.*in*);

//assign values to the variables

String myAsset = "computer system";

**int** assetLife = 0;

**double** salvage = 0, assetCost = 0, annual = 0;

System.*out*.println("please enter asset life");

assetLife = sc.nextInt();

System.*out*.println("please enter salvage value");

salvage = sc.nextDouble();

assetCost = 7500;

//annual depreciation computed

annual = (assetCost - salvage) / assetLife;

System.*out*.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.*out*.println("asset type: " + myAsset);

System.*out*.println("asset cost: $" + assetCost);

//call a method to print a heading

*PrintHeading*();

**int** Year = 0;

**double** temp = annual;

System.*out*.println(Year + "\t" + "------\t" + "\t" + assetCost);

//update any accumulators

**for**(**int** count = 1; count <= assetLife; count += 1)

{

Year += 1;

assetCost -= temp;

System.*out*.println(Year + "\t" + annual + "\t\t" + assetCost);

annual += annual;

}//end looping structure

}//end main

}//end class

**Output**

please enter asset life

5

please enter salvage value

800

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

asset type: computer system

asset cost: $7500.0

Year Accumulated book

---- ----------- ----

0 ------ 7500.0

1 1340.0 6160.0

2 2680.0 4820.0

3 5360.0 3480.0

4 10720.0 2140.0

5 21440.0 800.0