

Exam Aug 17

Sunday, August 20, 2023

10:47 PM

```
package jaavaTutorial;
import java.util.HashMap;
public class Exam2023 {
    public static void main(String[] args) {
        /*
        Define a multiple dimensional array and loop using for loop
        Define a class for singleton pattern
        Define a two classes with inheritance
        Define a example for overloading
        Define example for overriding Define a interface and implement it
        via class
        Define a class with abstract method and inherit via subclass
        Define a example for exception handling via try catch
        Define a enum with switch example
        Define a program to write a text file
        Define a HashMap and loop over it .
        once done create a new git repo and send it on telegram
        */

        //Define a multiple dimensional array and loop using for loop
        // int [][] muld = {
        // {1,2,3,4},
        // {5,6,7,8},
        // {9,10,11,12},
        // {13,14,15,16} };
        // for (int i = 0; i < muld.length; i++) {
        //     for (int j = 0; j < muld[i].length; j++) {
        //         System.out.print(muld[i][j] + " ");
        //     }
        //     System.out.println();
        // }
```

g for Each

nd implement

a normal class
atch block

telegram

ng for Each

```
// for ( int i = 0; i<muld.length;i++) {
//
// int [] obj = muld[i];
// for ( int j = 0; j<obj.length; j++) {
// System.out.println(obj[j]);
// }
// }
```

//Define a class for singleton pattern

//Define a two classes with inheritance Define a e
overloading

```
//calling method for inheritance
// Parent p = new Parent ("dad", "mom");
// p.dispalyParent();
// Child c = new Child ("son", " daughter");
// c.displayChild();
// c.dispalyParent();
```

//Define example for overloading

```
//calling OverLoading2 class
// OverLoading2 or = new OverLoading2("Harry", "Je
// or.displayNA(5, 7);
// or.displayNA("Sam", "NY");
```

//calling Overriding class

```
// Overriding2 o = new Overriding2();
// o.exam();
// o.test();
// o.task();
// Overriding2 o = new Overriding2();
```

example for

```
rsey");
```

```
//calling Overriding class
// Overriding2 o = new Overriding2();
// o.exam();
// o.test();
// o.task();
// Overriding3 o = new Overriding3();
// o.exam();
// o.test();
// o.task();
```

```
//Define a class with abstract method and
inherit via normal class
```

```
    //calling AbsMethod2 class
// AbsMethod2 abs = new AbsMethod2 ("My
method");
// abs.tree();
// abs.flower();
```

```
//Define a HashMap and loop over it .
// HashMap <String , Integer> HMap = new
HashMap<String , Integer>();
// HMap.put("Key one", 4);
// HMap.put("Key two", 4);
// HMap.put("Key three", 4);
// HMap.put("Key four", 4);
//
// for (HashMap.Entry<String, Integer> obj :
HMap.entrySet()) {
// System.out.println(obj);//took reference
for loop
// }
```



```

}
}
//Define a two classes with inheritance
//class for inheritance
//class Parent {
// String father;
// String mother;
//
// public Parent (String f, String m) {
// this.father= f;
// this.mother = m;
// }
// public void dispalyParent() {
// System.out.println("This is from parent");
// }
//}
//class Child extends Parent {
//
// public Child(String f, String m) {
// super(f, m);
// // TODO Auto-generated constructor stub
// }
// public void displayChild() {
// System.out.println("This is from child");
// }
//}
//Define example for overriding Define a
interface and implement via class
//class for overloading

```



```
// class OverLoading2 {
// String name;
// String address;
//
// public OverLoading2 (String n, String a) {
// this.name = n;
// this.address = a;
// }
// public void displayNA (String n, String a)
// {
// System.out.println("This is display from
// String");
//
// }
// public void displayNA (int n, int a) {
// System.out.println("This is display from
// Integer");
// }
// }
// Define example for overriding Define a
// interface and implement via class
// class Overriding2 {
// public void exam () {
// System.out.println("this is from exam.");
// }
// public void test() {
// System.out.println("this is from test.");
// }
// public void task() {
// System.out.println("this is from task.");
// }
// }
```



```
//  
// class Overriding3 extends Overriding2{  
// public void exam () {  
// System.out.println("this is from exam  
one.");  
// }  
// public void test() {  
// System.out.println("this is from test  
two.");  
// }  
// public void task() {  
// System.out.println("this is from task  
three.");  
// }  
// }  
// Define a class with abstract method and  
inherit via normal class  
// abstract class AbsMethod {  
//  
// String forest;  
// public AbsMethod (String f) {  
// this.forest = f;  
//  
// }  
// abstract void tree();  
// abstract void flower();  
// }  
// class AbsMethod2 extends AbsMethod{  
//  
// public AbsMethod2(String f) {  
// super(f);  
// }  
// }  
// TODO Auto-generated constructor stub
```



```
// }  
//  
// @Override  
// public void tree() {  
// System.out.println("This is a tree.");  
//  
// }  
//  
// @Override  
// public void flower() {  
// System.out.println("This is a flower");  
//  
// }  
//  
// }
```

