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Dept-IT

1. Create a reporsitory in github and push all source code of all exercises in it?

Ans:

1. Write a Java program to print "Hello World".

Ans:

class HelloWorld

{

public static void main(String args[])

{

System.out.println("Hello, World");

}

}

1. Write a Java program for declaring variables of all data types.

Ans:

class DataType {

public static void main(String args[])

{

char a = 'G';

int i = 89;

byte b = 4;

short s = 56;

double d = 4.355453532;

float f = 4.7333434f;

System.out.println("char: " + a);

System.out.println("integer: " + i);

System.out.println("byte: " + b);

System.out.println("short: " + s);

System.out.println("float: " + f);

System.out.println("double: " + d);

}

}

1. Write a Java Program to find size of different data type

Ans:

**Class SizePrimitiveTypes**{

**Public static void main**([String](http://www.google.com/search?hl=en&q=allinurl:docs.oracle.com+javase+docs+api+string)[] args)

{

System out.println("Size of byte: " + (Byte.SIZE/8) + " bytes.");

System.out.println("Size of short: " + (Short.SIZE/8) + " bytes.");

System.out.println("Size of int: " + (Integer.SIZE/8) + " bytes.");

System.out.println("Size of long: " + (Long.SIZE/8) + " bytes.");

System.out.println("Size of char: " + (Character.SIZE/8) + " bytes.");

System.out.println("Size of float: " + (Float.SIZE/8) + " bytes.");

System.out.println("Size of double: " + (Double.SIZE/8) + " bytes.");

}

}

1. Write a program to find size, maximum and minimum value of all primitive data types.

public class RangeOfDataTypes {

public static void main(String args[])

{

System.out.println(

"S.No.\t Data Type\t Size\t Min. Value\t\t Max. Value\t");

System.out.println("1\t Byte\t\t" + Byte.SIZE

+ "\t" + Byte.MIN\_VALUE

+ "\t\t\t" + Byte.MAX\_VALUE);

System.out.println("2\t Short\t\t" + Short.SIZE

+ "\t" + Short.MIN\_VALUE

+ "\t\t\t" + Short.MAX\_VALUE);

System.out.println("3\t Integer\t" + Integer.SIZE

+ "\t" + Integer.MIN\_VALUE

+ "\t\t" + Integer.MAX\_VALUE);

System.out.println("4\t Float\t\t" + Float.SIZE

+ "\t" + Float.MIN\_VALUE

+ "\t\t\t" + Float.MAX\_VALUE);

System.out.println("5\t Long\t\t" + Long.SIZE

+ "\t" + Long.MIN\_VALUE + "\t"

+ Long.MAX\_VALUE);

System.out.println("6\t Double\t" + Double.SIZE

+ "\t" + Double.MIN\_VALUE

+ "\t\t" + Short.MAX\_VALUE);

System.out.println("7\t Character\t"

+ Character.SIZE);

}

}

1. Write a Java program to check whether Java is installed on your computer.

public class Version {

public static void main(String[] args) {

System.out.println("\nJava Version: "+System.getProperty("java.version"));

System.out.println("Java Runtime Version: "+System.getProperty("java.runtime.version"));

System.out.println("Java Home: "+System.getProperty("java.home"));

System.out.println("Java Vendor: "+System.getProperty("java.vendor"));

System.out.println("Java Vendor URL: "+System.getProperty("java.vendor.url"));

System.out.println("Java Class Path: "+System.getProperty("java.class.path")+"\n");

}

}

Expected Output

Java Version: 1.8.0\_71

Java Runtime Version: 1.8.0\_71-b15

Java Home: /opt/jdk/jdk1.8.0\_71/jre

Java Vendor: Oracle Corporation

Java Vendor URL: http://Java.oracle.com/

Java Class Path: .

1. Create a class Student with an object called ‘s’. Print true if s is an instance of Student or not.

Ans:

class Student { }

class Main

{

public static void main(String[] args)

{

student s = null;

if (s instanceof Student)

System.out.println("true");

else

System.out.println("false");

}

}

8. In a Java program, create an empty class called Test and a class called Main with main().

Inside the main(), create an object ‘t’ for Test class. Check t is an instance of Main.

Ans:

class Test { }

class Main

{

public static void main(String[] args)

{

Test tobj = null;

if (tobj instanceof Test)

System.out.println("tobj is instance of Test");

else

System.out.println("tobj is NOT instance of Test");

}

}

1. Print the Unicode value of a string “JAVA”

Ans:

import java.io.\*;

class GFG {

public static void main(String[] args)

{

String str = "JAVA";

int result\_1 = str.codePointAt(0);

int result\_2 = str.codePointAt(1);

int result\_3 = str.codePointAt(2);

int result\_4 = str.codePointAt(3);

System.out.println("Original String : " + str);

System.out.println(result\_1+” “ +result\_2+” ”+result\_3+” ”+result\_4);

}

}

Expected output

74 65 86 65

10. Create appropriate classes, methods, variables for the following illustrations. (No implementation is required)

