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| **1. How to compile a java file?**   1. Save program with .java extension. 2. Open command prompt. 3. Set the directory in which .java file is saved with help of cd command. 4. This command is use to compile a java file –   **javac filename.java** |
| **2. How to run a class file?**  This command is use to run a java file – **java filename** |
| **3. How to debug a java file?**   To debug a Java program is to using the Package Explorer view. In the Package Explorer view   1. Right click on the java class that contains the main method. 2. Select Debug As → Java Application.   C:\Users\Dell\Desktop\2.png |
| **4. How to set classpath?**   1. Click on the Windows button and choose Control Panel. Select System. 2. Click on **Advanced System Settings.** 3. A dialog box will open. Click on Environment Variables. 4. click on the New button and type Variable name as CLASSPATH and Variable value as C:\Java Practicals |
| **5. How to view current classpath?**  view current classpath using echo command – **echo %CLASSPATH%** |
| **6. How to set destination of the class file?**  To set destination of the class file that will be created after compiling a java file using -d option with javac command.  javac Demo.java –d c:\myclasses |
| **7. How to run a compiled class file?**   1. Save program with .java extension. 2. Open command prompt. 3. Set the directory in which .java file is saved with help of cd command. 4. This command is use to compile a java file –   **javac filename.java**   1. This command is use to run a java file – **java filename** |
| **8. How to check version of java running on your system?**   1. Open command prompt 2. Type java –version then press enter. |
| **9. How to set classpath when class files are in .jar file?**   1. Open command prompt. 2. Type java -classpath C:\java\myclasses.jar utility.testapp.main |

**10. Program to find out the range(min and max) of the given data types.**

**package** datatype;

**public** **class** minmaxrange {

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

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

System.***out***.println("Min.Value=" + Byte.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Byte.***MAX\_VALUE***);

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

System.***out***.println("Min.Value=" + Short.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Short.***MAX\_VALUE***);

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

System.***out***.println("Min.Value=" + Integer.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Integer.***MAX\_VALUE***);

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

System.***out***.println("Min.Value=" + Long.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Long.***MAX\_VALUE***);

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

System.***out***.println("Min.Value=" + Float.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Float.***MAX\_VALUE***);

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

System.***out***.println("Min.Value=" + Double.***MIN\_VALUE***);

System.***out***.println("Max.Value=" + Double.***MAX\_VALUE***);

}

}

**11. Program to find the default value of the given data types.**

**package** datatype;

**public** **class** defaultType {

**static** **boolean** *val1*;

**static** **byte** *val2*;

**static** **char** *val3*;

**static** **short** *val4*;

**static** **int** *val5*;

**static** **long** *val6*;

**static** **float** *val7*;

**static** **double** *val8*;

**static** String *val9*;

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

System.***out***.println("boolean=" + *val1*);

System.***out***.println("byte=" + *val2*);

System.***out***.println("char=" + *val3*);

System.***out***.println("short=" + *val4*);

System.***out***.println("int=" + *val5*);

System.***out***.println("long=" + *val6*);

System.***out***.println("float=" + *val7*);

System.***out***.println("double=" + *val8*);

System.***out***.println("String=" + *val9*);

}

}

**12. Program to convert the given decimal number into integer**

**package** datatype;

**import** java.util.Scanner;

**public** **class** DoubletoInt {

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

**double** dval;

**int** ival;

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

System.***out***.println("Enter Decimal Value");

dval = sc.nextDouble();

ival = (**int**) dval;

System.***out***.println("Integer Value:\n" + ival);

}

}

**13. Program to store the information of the car (Name, Model, Year of Purchase, Purchase price). Price of the car is depreciated 10% every year. And minimum resale price should 20% of the purchase price. Write a method to calculate the resale price of the car in the provided year.  
For eg,   
Car purchased in 2017 by 1000000 rs  
Resale price in 2018 will be 900000 rs  
Resale price in 2019 will be 8,10,000 rs**

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