Session 1

class First

{

public static void main(String[] args)

{

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

}

}

class Second

{

public static void main(String[] args)

{

System.out.println("swati");

}

}

class Third

{

public static void main(String[] args)

{

System.out.println("Hello");

}

}

class Fourth

{

}

class Fifth

{

public static void main(String[] args)

{

System.out.println("Hello");

System.out.println("Good Afternoon");

System.out.println("How are you?");

System.out.println();

System.out.println();

System.out.println("Bye");

}

}

//Hello

//Good Afternoon

//How are you?

//

//

//Bye

//

class Sixth

{

public static void main(String[] args)

{

System.out.print("Hello");

System.out.print("Good Afternoon");

System.out.print("How are you?");

System.out.print("Bye");

System.out.print();//compile time error

}

}

//HelloGood AfternoonHow are you?Bye

class Seventh

{

public static void main(String[] args)

{

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

System.out.print(" How are you?");

System.out.println("Today is Wednesday");

System.out.print("This is core java class");

}

}

//Hello World!

// How are you?Today is Wednesday

//This is core java class

class Eighth

{

public static void main(String[] args)

{

System.out.print("Name=Swati");

System.out.println();

System.out.print("Comapny Name=Test Yantra");

}

}

Session2

class 1Program

{

public static void main(String[] args)

{

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

}

}

class \_Program\_Second\_

{

public static void main(String[] args)

{

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

}

}

class $Program$Third$

{

public static void main(String[] args)

{

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

}

}

class Program Fourth

{

public static void main(String[] args)

{

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

}

}

class void

{

public static void main(String[] args)

{

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

}

}

class $void

{

public static void main(String[] args)

{

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

}

}

Session3

class Program1

{

public static void main(String[] args)

{

//local variable

byte b=34;//declaration and initialization

System.out.println(b);

Short s=345;

System.out.println(s);

int i=3445;

System.out.println(i);

long l=877666766554L;

System.out.println(l);

float f=45.90F;

System.out.println(f);

double d=877654.34344556;

System.out.println(d);

char c1='l';

System.out.println(c1);

char c2=122;//'z'

System.out.println(c2);//z

}

}

class Program2

{

public static void main(String[] args)

{

byte b=23;//8 bits

int n=b;//32 bits Widening

System.out.println(b+" "+n);//23 23

double d=45.12;//64bits or 8 bytes

int n1=(int)d;//32 bits Narrowing

System.out.println(n1+" "+d);

int n2=567;

float f=n2;//Widening

System.out.println(n2+" "+f);

int n3=(int)f;//narrowing

System.out.println(n3);

}

}

//1 byte=8 bits

//1024bytes=1 kb

//1024 kb=1 mb

//byte<short<int<long<float<double

class Program3

{

public static void main(String[] args)

{

int a=10;

int b=a;//10

System.out.println(a+b);//20

System.out.println(a+" "+b);//10 10

System.out.println(a+"CoreJava");//10CoreJava

System.out.println(a+b+"Core Java");//20Core Java

System.out.println("Core Java"+a+b);//Core Java1010

System.out.println("Core Java"+(a+b));//CoreJava20

}

}

class Program4

{

public static void main(String[] args)

{

char ch1='z';//122

char ch2='Z';//90

System.out.println(ch1+" "+ch2);//z Z

int a=ch1;//Widening

int b=ch2;//Widening

System.out.println(a+" "+b);//122 90

System.out.println((int)ch1+" "+(int)ch2);

System.out.println(ch1+ch2);//122+90=212

}

}

class Program5

{

public static void main(String[] args)

{

char ch='a';

int a=ch;

float f=ch;

double d=ch;

System.out.println(ch+" "+a+" "+f+" "+d);

int a1=100;

char c1=(char)a1;

System.out.println(c1);//'d'

float f1=97.1234f;

char c2=(char)f;

System.out.println(c2);//'a'

long l=43L;

char c3=(char)l;

System.out.println(c3);//'+'

double d1=50.1278;

char c4=(char)d1;

System.out.println(c4);//'2'

}

}

class Program6

{

public static void main(String[] args)

{

int a=61;

float b=(float)a/2;// a/2f or a/2.0f

System.out.println(a+" "+b);

}

}

class Program7

{

public static void main(String[] args)

{

float a=56.34f/2;//

System.out.println(a);

}

}

class Program8

{

public static void main(String[] args)

{

char c='g';//103

int a=c+10;//103+10=113

c=(char)a;//113->'q'

int b=c-50;//113-50=63

char ch2=(char)b;//63->'?'

System.out.println(c+" "+ch2);

}

}