Q) class A extends B{

}

Class B extends A{}

o/p: ? Compilation error

Q) class A extends A{}

o/p: Compilation error

Q) class Test{

Public void m1(){}

Public int m1(){return 0;}

} o/p Compilation error

Q) package Day1;

class Test2{

public void m1(StringBuffer sf){

System.out.println("in string buffer method");

}

public void m1(String sf){

System.out.println("in string method");

}

public void m1(int sf){

System.out.println("in int method");

}

public void m1(Integer sf){

System.out.println("in Integer method");

}

public void m1(String[] sf){

System.out.println("in string array method");

}

/\*public void m1(String... sf){

System.out.println("in string- var method");

}\*/

//String[] and var-arg string is same.

public static void main(String args[]){

Test2 obj = new Test2();

obj.m1("hello");

obj.m1(new StringBuffer("hi"));

obj.m1(null);

}}

O/p: Compilation error

class Test2{

public void m1(Object sf){

System.out.println("in object method");

}

public void m1(String sf){

System.out.println("in string method");

}

public static void main(String args[]){

Test2 obj = new Test2();

obj.m1("hello");

obj.m1(new StringBuffer("hi"));

obj.m1(null);

}

}

o/p: ?

in string method

in object method

in string method

Q) class Test2{

public void m1(String sf){

System.out.println("in string method");

}

}

class T extends Test2{

public int m1(String sf){

System.out.println("in string method");

}} o/p: ? Compilation error

Q) class Test2{

public Object m1(String sf){

System.out.println("in string method");

return null;

}}

class T extends Test2{

public String m1(String sf){

System.out.println("in string method");

return null;

}}

o/p ? compiles fine

Q) class Test2{

public int m1(String sf){

System.out.println("in string method");

return 0;

}}

class T extends Test2{

public long m1(String sf){

System.out.println("in string method");

return 0l;

}} o/p? Compilation error

Q) class Test2{

public int m1(String sf){

System.out.println("in string method");

return 0;

}}

class T extends Test2{

public Integer m1(String sf){

System.out.println("in string method");

return 0;

}

} o/p : ? Compilation error

.

Q) class Test2{

public int m1(String sf){

System.out.println("in string method");

return 0;

}

}

class T extends Test2{

public int m1(String sf) throws IOException{

System.out.println("in string method");

return 0;

}

}

o/p: ? Compilation error

Q) class Test2{

public int m1(String sf)throws IOException{

System.out.println("in string method");

return 0;

}

}

class T extends Test2{

public int m1(String sf) throws NullPointerException{

System.out.println("in string method");

return 0;

}

}

o/p: ? No main method

class Test21{

int m1(String sf)throws IOException{

System.out.println("in m1 string method of parent class");

return 0;

}

public static int m2(String sf) {

System.out.println("in m2 string method of parent class");

return 0;

}}

class Test2 extends Test21{

@Override

public int m1(String sf) {

System.out.println("in m1 string method of child class");

return 0;

}

public static int m2(String sf) {

System.out.println("in m2 string method of child class");

return 0;

}

public static void main(String args[]) throws IOException{

Test21 obj = new Test2();

obj.m2("hello");

obj.m1("hello");

}}

o/p? in m2 string method of parent class

in m1 string method of child class

Q) class Test21{

int m1(String... sf)throws IOException{

System.out.println("in m1 string method of parent class");

return 0;

}

public static int m2(String sf) {

System.out.println("in m2 string method of parent class");

return 0;

}

}

class Test2 extends Test21{

@Override

public int m1(String[] sf) {

System.out.println("in m1 string method of child class");

return 0;

}

public static int m2(String sf) {

System.out.println("in m2 string method of child class");

return 0;

}

public static void main(String args[]) throws IOException{

Test21 obj = new Test2();

obj.m2("hello");

obj.m1(new String[]{"hello", "hi"});

}

}

o/p: ? in m2 string method of parent class

in m1 string method of child class

Q) class Test21{

static {

System.out.println(x);

}

static int x=10;}

o/p: ? Compilation error

class Test2{

1 static int x=10; 7

2 static {

m1(); 8

System.out.println("FSB"); 10

}

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

m1(); 13

System.out.println("main method"); 15

}

4 public static void m1(){

System.out.println(y); 9 ,14

}

5 static{

System.out.println("SSB"); 11

}

6 static int y=20;} 12

o/p: ? 0

FSB

SSB

20

Q) **class** Test2{

**static** **int** *x*=10;

**static** {

*m1*();

System.*out*.println("base SB");

}

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

*m1*();

System.*out*.println("base main method");

}

**public** **static** **void** m1(){

System.*out*.println(*y*);

}

**static** **int** *y*=20;

}

**class** Derived **extends** Test2{

**static** **int** *i*= 100;

**static**{

*m2*();

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

}

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

*m2*();

System.*out*.println("derived main method");

}

**public** **static** **void** m2(){

System.*out*.println(*j*);

}

**static**{

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

}

**static** **int** *j*=200;

}

o/p: java Derived:

? 0

base SB

20

base main method

java Test2:

?

**Q) class** Test2{

**static** **int** *x*=10;

**static** {

*m1*();

System.*out*.println("base SB");

}

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

Derived.*main*(args);

*m1*();

System.*out*.println("base main method");

}

**public** **static** **void** m1(){

System.*out*.println(*y*);

}

**static** **int** *y*=20;

}

**class** Derived{

**static** **int** *i*= 100;

**static**{

*m2*();

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

}

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

*m2*();

System.*out*.println("derived main method");

}

**public** **static** **void** m2(){

System.*out*.println(*j*);

}

**static**{

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

}

**static** **int** *j*=200;

}

o/p: ? 0

base SB

0

DFSB

200

derived main method

20

base main method

Q) **class** Test2{

**int** x=10;

{

m1();

System.*out*.println("base SB");

}

Test2(){

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

}

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

Test2 obj= **new** Test2();

System.*out*.println("base main method");

}

**public** **void** m1(){

System.*out*.println(y);

}

{

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

}

**int** y=20;

}

o/p: ? 0

base SB

SIIB

Constructor

base main method

Q) **package** Day1;

**class** Test2{

**int** x=10;

{

m1();

System.*out*.println("parent SB");

}

Test2(){

System.*out*.println("Parent Constructor");

}

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

Test2 obj= **new** Test2();

System.*out*.println("Parent main method");

}

**public** **void** m1(){

System.*out*.println(y);

}

**int** y=20;

}

**class** Child **extends** Test2{

**int** i=100;

{

m2();

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

}

Child(){

System.*out*.println("child constructor");

}

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

Child obj= **new** Child();

System.*out*.println("child main");

}

**public** **void** m2(){

System.*out*.println(j);

}

**int** j=200;

}

Java Child:

? 0

parent SB

Parent Constructor

Parent main method