Packages

1. Find Output

Which of the following is/are true about packages in Java?

1) Every class is part of some package.

2) All classes in a file are part of the same package.

3) If no package is specified, the classes in the file go into a special unnamed package

4) If no package is specified, a new package is created with folder name of class and the class is put in this package.

Output

(A) Only 1, 2 and 3
(B) Only 1, 2 and 4
(C) Only 4
(D) Only 1 and 3

Answer: (A)

2. Find Output

Which of the following is/are advantages of packages?

(A) Packages avoid name clashes

(B) Classes, even though they are visible outside their package, can have fields visible to packages only

(C) We can have hidden classes that are used by the packages, but not visible outside.

(D) All of the above

Output

- **Answer: (D)**

3. Find Output

```
import static java.lang.System.*;

class StaticImportDemo
{
   public static void main(String args[])
   {
       out.println(“raju");
   }
}
```

Output

(A) Compiler Error
(B) Runtime Error
(C) raju
(D) None of the above

Answer: (C)

4. Find Output

```
// Filename: Hello.java
package a;
public class Hello {
   private void printMessage()
   {
      System.out.println("Hello");
   }
   public void fun()
   {
      printMessage();
   }
}

// Filename: World.java
package b;
import a.Hello;
public class World {
   private void printMessage()
   {
      System.out.println("World");
   }

   public static void main(String[] args)
   {
      Hello gfg = new Hello();
      gfg.fun();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: a

5. Find Output

```
// Filename: Hello.java
package a;
public class Hello {
   private void printMessage()
   {
      System.out.println("Hello");
   }
   public void fun()
   {
      printMessage();
   }
}

// Filename: World.java
package b;
import a.Hello;
public class World {
   private void printMessage()
   {
      System.out.println("World");
   }

   public static void main(String[] args)
   {
      Hello gfg = new World();
      gfg.fun();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: b

6. Find Output

```
// Filename: Hello.java
package a;
public class Hello {
   private void printMessage()
   {
      System.out.println("Hello");
   }
   public void fun()
   {
      printMessage();
   }
}

// Filename: World.java
package b;
import a.Hello;
public class World extends Hello {
   private void printMessage()
   {
      System.out.println("World");
   }

   public static void main(String[] args)
   {
      Hello gfg = new World();
      gfg.fun();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: a

7. Find Output

```
// Hello.java
package a;
public class Hello {
   public void printMessage()
   {
      System.out.println("Hello");
   }
}

// World.java
package b;
import a.Hello;
public class World extends Hello {
   private void printMessage()
   {
      System.out.println("World");
   }

   public static void main(String[] args)
   {
      Hello gfg = new World();
      gfg.printMessage();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: b

8. Find Output

```
// Hello.java
package a;
public class Hello {
   void printMessage()
   {
      System.out.println("Hello");
   }
}

// World.java
package b;
import a.Hello;
public class World extends Hello {
   void printMessage()
   {
      System.out.println("World");
   }
   public static void main(String[] args)
   {
      Hello gfg = new World();
      gfg.printMessage();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: b

9. Find Output

```
/* Hello.java */
package a;
public class Hello {
   public void doIt()
   {
      printMessage();
   }
   void printMessage()
   {
      System.out.println("Hello");
   }
}

/* World.java */
package b;
import a.Hello;
public class World {
   private static class GFG extends Hello {
      void printMessage()
      {
         System.out.println("World");
      }
   }
   public static void main(String[] args)
   {
      GFG gfg = new GFG();
      gfg.doIt();
   }
}
```

Output

a) Hello
b) Compilation error
c) Runtime error
d) World

Ans: a

Explaination

Visibility of printMessage() is default in package a. Thus, no overriding takes place here.

10. Find Output

Which of these access specifiers can be used for a class so that its members can be accessed by a different class in the different package?

a) Public

b) Protected

c) Private

d) No Modifier

Output

Answer: a

11. Find Output

```
package a;
class display
  {
    int x;
    void show()
    {
      if (x > 1)
        System.out.print(x + " ");
    }
  }
  class Hello
  {
    public static void main(String args[])
    {
      display[] arr=new display[3];
      for(int i=0;i<3;i++)
        arr[i]=new display();
      arr[0].x = 0;
      arr[1].x = 1;
      arr[2].x = 2;
      for (int i = 0; i < 3; ++i)
        arr[i].show();
    }
  }
```

Output

a) 0
b) 1
c) 2
d) 0 1 2

Answer: c

12. Find Output

```
package pkg;
class output
{
public static void main(String args[])
{
StringBuffer s1 = new StringBuffer("Hello");
s1.setCharAt(1, x);
System.out.println(s1);
}
}
```

Output

a) xello
b) xxxxx
c) Hxllo
d) Hexlo

Answer: c

Find Output

Output