Exercise 1:

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 int a=15;  
 if(a==15)  
 {  
 System.out.print("dsds"); }  
 }  
}

There is no error in above code and it works fine.

Exercise 2:

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 System.out.print(100/0);  
 }  
}

Run-Time Error: Exception in thread "main" java.lang.ArithmeticException: / by zero  
at HelloWorld.main(HelloWorld.java:5)

Solution:  
You can not divide any number with zero so only way to remove above error is to remove 0 or replace it with something else.

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 System.out.print(100);  
 }  
}

Exercise 3:

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 System.out.println(100/100);  
 }  
}

There is no error in above code and it works fine.

Exercise 4:

public class HelloWorld  
{  
 public static void main(String[] args)  
 { int a,b=15;  
 System.out.print(a+” ”+b);  
 }  
}

Syntax-Error:HelloWorld.java:6: error: variable a might not have been initialized  
System.out.print(a+" "+b);

Solution:  
Initiallize ‘a’ or do not use ‘a’

public class HelloWorld  
{  
 public static void main(String[] args)  
 { int a=3,b=15;  
 System.out.print(a+” ”+b);  
 }  
}

Exercise 5:

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 int a=15;  
 int b=16;  
 c=a+b;  
 System.out.print(c);  
 }  
}

Syntax\_Error:abc.java:7: error: cannot find symbol  
 c  
 symbol: variable c  
 location: class HelloWorld  
HelloWorld.java:8: error: cannot find symbol  
 System.out.print(c);  
 ^  
 symbol: variable c

location: class HelloWorld  
2 errors

Solution:

Declare ‘c’ before using it

public class HelloWorld  
{  
 public static void main(String[] args)  
 {  
 int a=15;  
 int b=16;  
 int c=a+b;  
 System.out.print(c);  
 }  
}