

① Identify the error in the following program.

```
Class abc {  
    Public static void main ()  
    {  
        int i = 0;  
        i = i + 1;  
        Systems.out.println(i);  
    }  
}
```

- 1) The class name should start with a capital letter. Instead of "abc", it should be "Abc".
- 2) The "main" method declaration is missing the array parameter for command-line arguments.
- 3) The keyword "Public" should be "public".
- 4) The keyword "void" should be "void".
- 5) "Systems" should be "System".

Corrected Program:

```
class Abc {  
    public static void main (String args []) {  
        int i = 0;  
        i = i + 1;  
        System.out.println(i);  
    }  
}
```


② Identify the error in the following program.

```
class abc {  
    public static void main()  
    {  
        short i = 2500, j = 3000;  
        System.out.println("i+j", i+1);  
    }  
}
```

1) The class name should start with capital letter "Abc".

2) The keyword "public" should be "public".

3) The "main" method declaration is mixing the array parameter for command-line arguments.

4) "s" should be small in short.

5) The argument to the "System.out.println" method should not be wrapped in quotation marks.

Corrected Program

```
class Abc {  
    public static void main(String args[]) {  
        short i = 2500;  
        short j = 3000;  
        System.out.println(i+j);  
    }  
}
```


③ What will happen when you run the following program.

```
Class abc {  
    Public static void mainc )  
    {  
        int f = 1.0 , j = 5;  
  
        int inad Result = 0;  
        int divresult = 0;  
        int mod Result = i % j;  
        System.out.println (modresult);  
    }  
}
```

1) The class name should start with capital letter.

2) Public \rightarrow public

3) Missing (String args [])

4) The variable "f" is declared as an integer but assigned value of 1.0, which is floating-point literal.

5) mod Result = i % j has an incorrect syntax.

6) System.out.println has incorrect syntax.

Corrected Program:

```
class Abc {  
    public static void main (String[] args) {  
        int f = 1;  
        int j = 5;  
        int inad Result = 0;  
        int divResult = 0;  
        int mod Result = f % j;  
        System.out.println (modResult);  
    }  
}
```


④ Find error, if any in following java statements.

(a) `System.out.println("x=" + x);`

There are no error in the above statement.

(b) `m=5; // n=10 // s=m.`

There are error in above statement.

⇒ `'m=5; // n=10 // s=m'.`

(c) `cin >> x; >> y;`

The above statement refer to C++ syntax, the equivalent would be to use the 'Scanner'.

⇒ `Scanner sc = new Scanner(System.in);
x = sc.nextInt();
y = sc.nextInt();`

(d) `System.out.println("\n "name", name);`

Error in above statement.

⇒ `System.out.println("\n name" + name);`

(e) `System.out.println("enter the value", +x);`

Error statement [The comma should be avoided].

⇒ `System.out.println("enter the value" + x);`

(f) `/* addition */ z=x+y;`

There are no error in above statement.