



DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
Innovations by the Faculty in Teaching and Learning
DEBUGGING

Name of the subject: Object Oriented Programming in Java.

Topic: Basic concept of OOPS.

Objective: To enhance the interest towards the subject.

1. What will be the output of the program?

```
public class CommandArgsThree
{
    public static void main(String [] args)
    {
        String [][] argCopy = new String[2][2];
        int x;
        argCopy[0] = args;
        x = argCopy[0].length;
        for (int y = 0; y < x; y++)
        {
            System.out.print(" " + argCopy[0][y]);
        }
    }
}
```

and the command-line invocation is

```
> java CommandArgsThree 1 2 3
```

A. 0 0

B. 1 2

C. 0 0 0

D. 1 2 3

2. What will be the output of the program?

```
public class CommandArgs
{
    public static void main(String [] args)
    {
        String s1 = args[1];
        String s2 = args[2];
        String s3 = args[3];
        String s4 = args[4];
        System.out.print(" args[2] = " + s2);
    }
}
```

and the command-line invocation is

> java CommandArgs 1 2 3 4

A. args[2] = 2

B. args[2] = 3

C. args[2] = null

D. An exception is thrown at runtime.

3. public class F0091

```
{
    public void main( String[] args )
    {
        System.out.println( "Hello" + args[0] );
    }
}
```

What will be the output of the program, if this code is executed with the command line:

```
> java F0091 world
```

- A. Hello
- B. Hello Foo91
- C. Hello world
- D. **The code does not run.**

4. What will be the output of the program?

```
public class TestDogs
{
    public static void main(String [] args)
    {
        Dog [][] theDogs = new Dog[3][];
        System.out.println(theDogs[2][0].toString());
    }
}
class Dog { }
```

- A. null
- B. theDogs
- C. Compilation fails
- D. **An exception is thrown at runtime**

5. What will be the output of the program ?

```
public class Test
{
    public static void main(String [] args)
    {
        signed int x = 10;
        for (int y=0; y<5; y++, x--)
            System.out.print(x + ", ");
    }
}
```

```
}  
}
```

A. 10, 9, 8, 7, 6,

B. 9, 8, 7, 6, 5,

C. **Compilation fails.**

D. An exception is thrown at runtime.

6. What will be the output of the program?

class **Equals**

```
{  
    public static void main(String [] args)  
    {  
        int x = 100;  
        double y = 100.1;  
        boolean b = (x = y); /* Line 7 */  
        System.out.println(b);  
    }  
}
```

A. true

B. false

C. **Compilation fails**

D. An exception is thrown at runtime

Outcomes: Students find the bug and suggest a fix.