FULL STACK DEVELOPMENT – WORKSHEET 5

FIND OUTPUT OF THE PROGRAMS WITH EXPLANATION

Q1.//Stringbuffer

```
public class Main
{
	public static void main(String args[])
	{
		String s1 = "abc";
		String s2 = s1;
		s1 += "d";
		System.out.println(s1 + " " + s2 + " " + (s1 == s2));
		StringBuffer sb1 = new StringBuffer("abc");
		StringBuffer sb2 = sb1;
		sb1.append("d");
		System.out.println(sb1 + " " + sb2 + " " + (sb1 == sb2));
	}
}
```

Q2.// Method overloading

```
public class Main
{
	public static void FlipRobo(String s)
	{
		System.out.println("String");
	}
	public static void FlipRobo(Object o)
	{
		System.out.println("Object");
	}

	public static void main(String args[])
	{
		FlipRobo(null);
	}
}
```

Q3.

```
class First
{
   public First() {  System.out.println("a"); }
}

class Second extends First
{
   public Second()  {  System.out.println("b"); }
}

class Third extends Second
{
   public Third()   {  System.out.println("c"); }
}
```

```
public class MainClass
{
   public static void main(String[] args)
   {
      Third c = new Third();
   }
}
```

```
Q4.public class Calculator
{
   int num = 100;
   public void calc(int num)  { this.num = num * 10;  }
   public void printNum()     { System.out.println(num); }

   public static void main(String[] args)
   {
      Calculator obj = new Calculator();
      obj.calc(2);
      obj.printNum();
   }
}
```

```
Q5.public class Test
{
   public static void main(String[] args)
   {
      StringBuilder s1 = new StringBuilder("Java");
      String s2 = "Love";
      s1.append(s2);
      s1.substring(4);
      int foundAt = s1.indexOf(s2);
      System.out.println(foundAt);
   }
}
```

```
Q6. class Writer
{
        public static void write()
        {
                System.out.println("Writing...");
        }
}
class Author extends Writer
{
        public static void write()
        {
                System.out.println("Writing book");
        }
}
```

```
public class Programmer extends Author
{
	public static void write()
	{
		System.out.println("Writing code");
	}

	public static void main(String[] args)
	{
		Author a = new Programmer();
		a.write();
	}
}
```

Q7.

```
class FlipRobo
{
	public static void main(String args[])
	{
		String s1 = new String("FlipRobo");
		String s2 = new String("FlipRobo");
		if (s1 == s2)
			System.out.println("Equal");
		else
			System.out.println("Not equal");
	}
}
```


Q8.

```
class FlipRobo
{
	public static void main(String args[])
	{
		try
		{
			System.out.println("First statement of try block");
			int num=45/3;
			System.out.println(num);
		}
		catch(Exception e)
		{
			System.out.println("FlipRobo caught Exception");
		}
		finally
		{
			System.out.println("finally block");
		}
		System.out.println("Main method");
	}
}
```

Q9.class FlipRobo

```
{
	// constructor
	FlipRobo()
	{
		System.out.println("constructor called");
	}

	static FlipRobo a = new FlipRobo(); //line 8

	public static void main(String args[])
	{
		FlipRobo b; //line 12
		b = new FlipRobo();
	}
}
```

Q10.class FlipRobo

```
{
	static int num;
	static String mystr;
	// constructor
	FlipRobo()
	{
		num = 100;
		mystr = "Constructor";
	}
	// First Static block
	static
	{
		System.out.println("Static Block 1");
		num = 68;
		mystr = "Block1";
	}
	// Second static block
	static
	{
		System.out.println("Static Block 2");
		num = 98;
		mystr = "Block2";
	}
	public static void main(String args[])
	{
		FlipRobo a = new FlipRobo();
		System.out.println("Value of num = " + a.num);
		System.out.println("Value of mystr = " + a.mystr);
	}
}
```