1. Fill out the following table

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	Definition	Purpose and/or how it is dealt with
Analysis and Design		
documentation		
prototyping		
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Iterative software development		
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Syntax errors		
Logic errors		
Runtime errors		
exceptions		
Exception handling		
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Testing		
Debugging		
Defeatoring		
Refactoring		

2. What is the output of the following Java program? **public class** Trick

```
public static void main(String[] args)
{
    int i = 10, n = 0;

    for (; n<10; n++)
        {
            i = n/2;
        }

        System.out.print(i + i + "" + n + n);
        System.out.println(i + "" + (n + n));
    }
}</pre>
```

3. Convert the for-loop construct in the following snippet of Java code into an equivalent while-loop construct.

```
int j = 0;
for (int i = 100; i > 0; i -= 5)
{
         j += 3 * i;
}
System.out.println(j);
```

4.	Write a complete Java program that displays the string "Hello World!" to the console. Assurthat the filename of this program is HelloWorld.java.	ne

5. List the order of the statements in the following Java program as they would be executed **and** show what the program would output.

```
abstract class Pet
     protected String name;
      protected int age;
     public Pet(String a, int b)
1:
          name = a;
2:
          age = b;
      public void grow()
3:
          age++;
     public String toString()
         return name + ":" + age + " years old.";
4:
    }
    class Cat extends Pet
     public Cat(String name, int age)
5:
         super(name, age);
    }
    class Dog extends Pet
     public Dog(String name, int age)
6:
          super(name, age);
    }
    class Home
     public static void main(String [] args)
7:
          Pet mydog = new Dog("Spike", 5);
          Pet mycat = new Cat("Tom", 3);
8:
9:
          System.out.println(mycat + "\t" + mydog);
10:
          for (int i = 0; i < 2; i++)
11:
           mydog.grow();
12:
           mycat.grow();
          System.out.println(mycat + "\t" + mydog);
      }
    }
```