```
package javasamplepaper;
(1)
(a) - Employee(), Employee(String name, float salary) = Constructors
   - raiseSalary(float percentRaise),getName(),getSalary(),displayDetails() = Methods
   - name(String), salary(float) = Data
//(b)
class Employee {
   private String name;
   private float salary;
   public Employee()
       this.name = "UnKnown";
       this.salary = 0.0f;
   }
   public Employee(String name, float salary)
       this.name = name;
       this.salary = salary;
   }
   public void raiseSalary(float percentRaise)
        this.salary = ((percentRaise + 100.0f) * this.salary)/100.0f;
   public String getName()
       return this.name;
   public float getSalary()
       return this.salary;
   public void displayDetails()
        System.out.println("Name is : " + this.name);
        System.out.println("Salary is : " + this.salary);
public class TestEmployee {
   public static void main(String args[])
        //(c)
       //i.
       Employee william = new Employee("Bill Smith", 35000.00f);
        william.displayDetails();
        //iii.
        william.raiseSalary(12.5f);
       william.displayDetails();
   }
```

1.1 of 1

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```
package javasamplepaper;
(2).
In Java, inheritance is used when a class wants to use/inherit the features of another existing class
public class A {
class B extends A{
//ii.
abstract class Student{
   public abstract void display();
iii.
   1. default
   2. private
   3. protected
    4. public
iv.
    Package in Java is a mechanism to encapsulate a group of classes, sub packages and interfaces
eg:
   java.util
   java.lang
    java.io
//v.
interface Paybonus{
   public void calcBonus();
class Employee implements Paybonus{
   @Override
   public void calcBonus() {
       //code
   }
```

1.1 of 1

```
package javasamplepaper;
//(3)
//i.
Overloading occurs when two or more methods in one class have the same method name
but different parameters.
Overriding means having two methods with the same method name and parameters
//Overloading Example
class overloading {
   public void overload()
        System.out.println("Original Body");
   public void overload(int x)
        System.out.println("Overloaded body with one integer parameter : " + x);
   public void overload(int x,int y,String z)
        System.out.println("Overloaded body with three parameters: "+x+" And "+y+" And "+z);
//Overriding Example
class overriding{
   public void overload()
        System.out.println("Original Body");
class A extends overriding
   @Override
   public void overload()
        System.out.println("Same method but Overrided Body");
//ii.
Java - Exceptions.
An exception (or exceptional event) is a problem that arises during the execution of a program.
When an Exception occurs the normal flow of the program is disrupted
and the program/Application terminates abnormally, which is not recommended
We can handle Exceptions using try-catch block , throws and throw Keywords
//iii.
class dividedByZero{
   private int num1 = 50;
   private int num2 = 0;
```

1.1 of 2

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            private int ans;
           public void divideWithTry()
                        try
                                     ans = num1/num2;
                         catch(ArithmeticException ex)
                                     System.out.println(ex);
            }
 //(4)
 //(a)
public void actionPerformed (ActionEvent e)
            int num1, num2;
            String ans;
            num1 = Integer.parseInt(txt1.getText());
           num2 = Integer.parseInt(txt2.getText());
            ans = Integer.toString(num1+num2);
            txt3.setText(ans);
 (b)
           Multithreading in java is a process of executing multiple threads simultaneously
            Extending by Thread class or Implementing Runnable interface
 (C)
            start() - Method to start the execution of a thread. Start() invokes the run() method on the Thread object.
            sleep() - That can be used to pause the execution of current thread for specified milliseconds and nanoseconds.
            setPriority() - Used to change the thread's priority.
                                                              Every thread has a priority which is represented by the integer number between 1 to 10.
```

2019.11.30 11:43:42 2.1 of 2