

**Tilak Maharashtra Vidyapeeth**  
**Bachelor of Computer Application**  
**3<sup>rd</sup> year Semester V**  
**Subject: - Java (Th)**

**Assignment No. 1**

**(20 Marks)**

- Q1. Explain difference between String and String Buffer?
- Q2. Why main method is static? What is the class variable? Explain the Inheritance Principle, Polymorphism principle?
- Q3. What is the package and interfaces? Explain advantages of packages?
- Q4. Write short note on: I) TextArea II) CardLayout
- Q5. I) What is an Exception ? Explain about Finally keyword.  
II) What is the Difference between Throw and Throws ? Describe Throw and Throws statements using their general forms.

**Assignment No. 2**

**(20 Marks)**

1. I) Describe any four EventListener interface and the specific methods contained them.  
II) Explain Frame. Describe some methods of Frame
2. I) Describe all functions which are used to compare string in java?  
II) What is the difference between equals() method and == operator ?
3. Explain the Delegation Event Model in detail.
4. Explain garbage collection ? Describe in brief finalize() method.
5. Difference between making the method synchronization and synchronization block ?

**Assignment No. 3**

**(20 Marks)**

1. Explain Difference between Applet and Swing and describe Applet architecture in Detail
2. Describe any 5 controls supported between AWT in detail.
3. Describe the constructors of the JCheckBox class and the JRadioButton class. Which is the method used to add buttons to group?

4. Describe `FileInputStream()` and `FileOutputStream()` in detail?
5. What are component class?