

Pune Vidyarthi Griha's
COLLEGE OF ENGINEERING, NASHIK – 4
COMPUTER ENGINEERING DEPARTMENT

Subject : PPL

ASSIGNMENT NO – 06

Unit : VI

1. What is an **exception** in Java? What do you mean by **handling an exception**?
Give example to show the use of try(), catch() and throw() methods.
2. What is **character streams and byte streams**? State any two examples of each predefined character and byte stream classes for I/O in Java.
3. Explain the use of **paint(), update() and repaint() methods** for applet programming. What is the difference in paint() and repaint() methods?
4. What are **predefined I/O classes**? Show with example how BufferedReader class is used in Java to receive character and a string inputs.
5. What is difference between the **byte stream and character streams**?
Demonstrate the use of console class to get inputs and show results.
6. Write a program in Java to calculate the value of $((x + y)/(x - y))$. Program should prevent the condition $x - y = 0$.
7. State the use of following methods for **programming applet**. Give example of using each of these **init(), start(), paint(), stop(), destroy(), update()**.
8. What is role of **CharacterArrayReader()** and **CharacterArrayWriter()** **methods** in Java. Write a program which reads string of 10 character from the user. Program extracts and prints the substring from the given string using above methods.

9. What is an **Applet**? Write a **generic Skeleton of Java Applet** and explain the use of each block.
10. State with example the use of following built in exceptions in Java :
- 1) **IndexOuOfBoundsException()**
 - 2) **NullPointerException ()**
 - 3) **ArrayIndexOutBoundException ()**
11. What is use of **Printstream and PrintWriter classes**? Which methods are supported by these classes? Give example of each.
12. How is the **architecture of an applet** different than a console based program?
13. Which class supports **character input to the program**? Write a program to read the name of the user and display welcome message.

***** **Best of Luck** *****

