Government Polytechnic For Girls , Surat
Department of Information Technology
Assignment
UNIT:1

1. Explain following terms

    A)Byte Code

    B)JVM

    C) Platform Independent

    D)JRE

    E)Java Interpreter

    F)JIT Compiler

2. Explain the structure of Java program with example.

3. What are commandline arguments? Write a java program to display the 3 city names using the command line arguments.

4. List out different OOP concepts. Explain each in detail.

5. Describe JVM.

6. Describe main() method in java.

7. State the importance of Byte code.

8. Write difference between OOP and POP.

9. List down features of java. Explain each features of JAVA.

10. Explain Garbage collection in detail with example.(**along with gc() and finalize()**)

11. Explain Loop control structure used in JAVA.

12. List types of array and explain variable type of array with example.

13. Explain different data types of JAVA.

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<u>UNIT:2</u>

1. List the methods of String class. Explain how to use String class.

2. What is wrapper class? Explain the purpose of wrapper class.

3. Write a JAVA program to reverse the given String.

4. Differentiate String and StringBuffer class.

5. Explain length() and equals() function of String Class.

6. What is constructor? Write down properties of constructor.

7. Explain copy constructor in java.

8. Explain parameterized constructor in java with example.

9. Explain use of static keyword in JAVA.

10. Explain final keyword with example.

11. Explain use of this with example.

12. What is method overloading? Explain it with example.

Government Polytechnic For Girls, Surat
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<u>UNIT:3</u>

1. List out types of inheritance. Explain multilevel inheritance with example.

2. Write a program to explain interface implementation.

3. Explain use of super keyword with example.

4. Explain abstract class in java.

5. Explain how to implement multiple inheritances in java through interfaces.

6. Write steps to create used defined packages in java.

7. Explain Dynamic Method Dispatch with example.

8. Write a short note on "Access Control"

9. What is interface? Explain implementation of interface with example.

10. Differentiate Method Overloading and Method Overriding.

Government Polytechnic For Girls, Surat
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<u>UNIT: 4</u>

1. List four different inbuilt exception of Java.

2. Define Thread. State two ways of defining Thread.

3. Explain Thread priority with suitable examples.

4. Explain Life cycle of thread.

5. Write a java program to develop user defined exception "Divide by zero" error.

6. Write a java application which throw user defined "Insufficient fund Exception" exception for Bank account.

7. Explain Exception Handling in Java.

8. What is Thread? List different methods used to create Thread. Explain one with example.

9. Explain throw and throws keyword with example.

10. Explain Single try multiple catch block with example.

11. Explain try catch block with example.

Government Polytechnic For Girls, Surat
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<u>UNIT: 5</u>

1. Write a Java program to create a text file and perform read operation on the text file.

2. Explain basic of Stream class.

3. Explain Java I/O process.