Accordance of believing — 10

Accord N.B. (1) Question No. 1 is compulsory.

(2) Attempt any four questions from remaining six questions.

(3) Assumptions made should be clearly stated.

(4) Answers to questions should be grouped and written together, i.e. all answers to sub questions or individual questions like G1, Q2, Q3 etc. should be answered one below other.
(5) All computer programs and program segment only in JAVA. (s) All computer programs and program segment only in JAVA.

Explain Applets in JAVA in terms of the following:

Creating an executable Applet

(ii) Designing a Web page which references an Applet

(iii) Adding Applets to HTM. File

(iv) Running the Applet

(iv) Running the Applet Life Cycle, init(), start(), stop(), and destroy()

(iv) The Basic Applet Life Cycle, init(), start(), stop(), and destroy()

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(iv) The Basic Applet Life Cycle, init(), start(), start(), stop(), start(), start(), stop(), start(), start 2. (a) Write an object Oriented Program in JAVA that uses Euclid's Algorithm to display the greatest 10 common divisor of two integers. The greatest common divisor of two numbers is the largest number that divides into both numbers. Here is how the algorithm works?

(i) Find the remainder after dividing the larger number by the smaller number, using the modulus operator.

(ii) Change the larger number to the smaller number and change the smaller number to the remainder from step ()

(iii) Keep doing this until the remainder is zero Incorporate member functions for data input, displaying the result, default constructor and constructors with two parameters. Also create objects to reference the member functions.

(b) Develop a JAVA program that determines the number of days in a given semester. Input 10 to the program is the year, month, and day information of the first and the last days of a semester. The program should accept the date information as a single string instead of accepting the year, month and day information separately. The input string must be in the MM/DD/YYYY format. Write a JAVA program to compute the distances S fallen by an object in freefall. The formula is Make a table of S for t = 1, \$5, 10, 15, 20 100.

(b) Write an object oriented program to arrange the names of students in descending order 10 of their total marks, input data consists of student details such as name, ID.no, Marks of Mathematics, Physics, Chemistry. Use array of objects.