**Assignments in Java**

1. An election is contested by 5 candidates. The candidates are numbered 1 to 5 and the voting is done by marking the candidate number on the ballot paper. Write a program to read the ballots and count the votes cast for each candidate using an array variable count. In case, a number read is outside the range from 1 to 5, the ballot should be considered as a ‘spoilt ballot’ and the program should also count the number of spoilt ballots.

2. The internal test results of 50 students are tabulated as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Roll | CA1 | CA2 | CA3 | CA4 | PCA1 | PCA2 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Write a program to read the data and determine the following:

1. Total marks obtained by each student.
2. The highest marks in each subject and the Roll Number of the student who secured it.
3. The student who obtained the highest total marks.

3. Write a program in Java which will have two two-dimensional arrays A and B, these two arrays are to be sorted in ascending order. The program should merge the two arrays into a single array C that will contain every item from arrays A and B in ascending order.

4. Write a program to do the following:

1. To output the question “Who is the inventor of Java ?”
2. To accept the answer.
3. To print out “Good” and then stop, if the answer is correct.
4. To output the message “Try Again”, if the answer is wrong.
5. To display correct answer when the answer is wrong even at the third attempt and stop.

5. Write a program which will read a text and will count all occurrences of every word.

6. Write a program which will read a string and rewrite it in the alphabetical order. For example, the word STUDENT should be written as DENSTTU.

7. Write a program which will perform following tasks:

1. To create a vector with five items.
2. To delete an item in the list as per user’s choice.
3. To add an item at a specific location in the list.
4. To add an item at the end of the list
5. To print the content of the vector.