8186_Rohit Gupta_Introduction to Java - 2

Q.1 Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices).

```
/usr/lib/jvm/java-1.8.0-openjdk-amd64/bir
House Types and Their Prices:
house1 costs Rs. 11234
house2 costs Rs. 534433
house3 costs Rs. 353335
house4 costs Rs. 583855
```

Q.2 Create a User class with fields: firstname, lastname, age, phonenumber. Write a program which accepts values of user fields from commandline, create object and append that to a text file. After every user creation the program should prompt: "Do you want to continue creating users? (Type QUIT to exit)" and keep on accepting values and writing to file unitl user quits.

```
import java.util.*;
import java.io.*;
  public User(String firstName, String lastName, int age, String phoneNumber)
      this.firstName = firstName;
      this.lastName = lastName;
      this.phoneNumber = phoneNumber;
public class hello {
  public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
          System.out.print("Enter First Name: ");
          String firstName = scanner.nextLine();
          System.out.print("Enter Last Name: ");
          String lastName = scanner.nextLine();
          System.out.print("Enter Age: ");
           int age = Integer.parseInt(scanner.nextLine());
          User user = new User(firstName, lastName, age, phoneNumber);
```

```
/usr/lib/jvm/java-1.8.0-openjdk-amd64/bin/java ...

Enter First Name: rohit

Enter Last Name: gypta

Enter Age: 21

Enter Phone Number: 86788784844

Do you want to continue creating users? (Type QUIT to exit):

Enter First Name: kunal

Enter Last Name: rawat

Enter Age: 22

Enter Phone Number: 537959375533

Do you want to continue creating users? (Type QUIT to exit): QUIT

rohit@TTNPL-rohitgupta:~/IdeaProjects/bootcampp$ cat example.txt
```

Q.3 Write a program to count number of occurrences of a word in a file. The file name and word should be supplied through commandline.

rohit,gypta,21,86788784844 kunal,rawat,22,537959375533

```
public class hello {
   public static void main(String[] args) {
       Scanner sc=new Scanner(System.in);
       System.out.println("Enter filename: ");
       System.out.println("Enter wordtofind: ");
        String wordToFind =sc.nextLine();
        int wordCount = 0;
        try (BufferedReader br = new BufferedReader(new FileReader(fileName))) {
            String line;
           while ((line = br.readLine()) != null) {
                String[] words = line.split( s: "\\s+");
                for (String word : words) {
                    if (word.equals(wordToFind)) {
                        wordCount++;
            System.out.println("The word '" + wordToFind + "' occurred " + wordCount + " times.");
        } catch (IOException e) {
            System.out.println("An error occurred while reading the file: " + e.getMessage());
```

```
rohit@TTNPL-rohitgupta:~/IdeaProjects/bootcampp$ cat example.txt
rohit
kunal
vijay
vikas
rohit
rohit
```

```
Enter filename:

example.txt
Enter wordtofind:

rohit
The word 'rohit' occurred 3 times.

Process finished with exit code 0
```

Q.4 Write a program to show application of Factory Design Pattern.

```
interface employee {
   void hi();
}
```

```
class developer implements employee {
class manager implements employee {
class tester implements employee {
      System.out.println("hi,I am tester");
class employeefactory {
  public static employee getemployee(String emp) {
          return new developer();
       } else if (emp.equals("manager")) {
          return new manager();
       } else if (emp.equals("tester")) {
          return new tester();
  public static void main(String[] args) {
      employee emp1 = employeefactory.getemployee("manager");
```

```
hi,I am manager
Process finished with exit code 0
```

Q.5 Write a program to show application of Singleton Design Pattern.

```
class hello{ 7 usages
    private static hello instance=null; 3 usages
    private hello() { 1 usage
    }
    public static hello getInstance() { 2 usages
        if (instance == null) {
            instance = new hello();
        }
        return instance;
    }
}

public class rohit{
    public static void main(String[] args) {
        hello hello1 = hello.getInstance();
        hello hello2 = hello.getInstance();
        System.out.println("Are both instances same? " + (hello1==hello2)); // Should print 'true'
    }
}
```

```
Are both instances same? true

Process finished with exit code 0
```