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# Assignment 5

## Software development

Lottery program contains:

1. Lottery class which describes all fields and methods required by the assignment5, contains following methods:
   1. public int [] Generate()
   2. public boolean isUnique (int num, int[] list )
   3. public void PrintLottery(int [] lotteryList)
   4. public int [] getGeneratedLotteryList()
   5. public int [] getUserLotteryList()
   6. public void clearLotteryList(int[] list)
   7. public int[] userInput()
   8. public boolean inRange(int num)
   9. public int compareLotteryLists(int[] theUserLotteryList, int[] theGeneratedLotteryList)
   10. public void writeLotteries()
   11. public void PrintMatchesResults(int matches)
   12. public void readLotteries()
2. Main class which contains a main method to execute the program. Logic is organised in a director method ‘run()’ , it contains main program menu.
3. ConsoleColors class defines console colours to enable colourful output into console. The code was taken from the intenet from the following link: <https://stackoverflow.com/questions/5762491/how-to-print-color-in-console-using-system-out-println> e.g. to print a text in yellow:
   1. System.out.print(ConsoleColors.YELLOW + "Yellow colored output text" + ConsoleColors.RESET);
4. Updated Genio class to support colourful output for the validation errors.

**Screenshot of a program run:**

