

## **Logic Building Assignment: 73**

## 1. java program to print pyramid of characters using class

```
Enter Number: 5
         Α
       ABA
     ABCBA
   ABCDCBA
 ABCDEDCBA
import java.util.Scanner;
class Pattern2
{
    private int num;
    public void setNum(int num)
         this.num=num;
    public int getNum()
         return this.num;
    }
    public void printAnswer()
         // Logic
    public void inputNum()
         Scanner sc = new Scanner(System.in);
         System.out.print("Enter Number : ");
         int num = sc.nextInt();
         setNum(num);
    }
    public static void main(String[] ar)
         Pattern2 ob = new Pattern2();
         ob.inputNum();
         ob.printAnswer();
    }
}
```

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# 2. Program to check given strings are Anagram or not This java program will read two strings and check whether they are anagram strings or not.

```
import java.util.Arrays;
import java.util.Scanner;
class AnagramString
{
     static boolean isAnagrams(String str1,String str2)
     {
          // Logic
     }
     public static void main(String[] args)
     {
          Scanner sc = new Scanner(System.in);
          System.out.println("Enter String1:");
          String str1 = sc.next();
          System.out.println("Enter String2:");
          String str2 = sc.next();
          if(isAnagrams(str1,str2))
               System.out.println("Anagram Strings !!");
          else
          {
               System.out.println("Strings are not Anagram !!");
          }
     }
}
```

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## 3. Java program to input a string from user and reverse each word of given string

```
import java.util.Scanner;
class ReverseEachWord
                                 //ABC XY PQ
{
    String reverseWord(String inputString)
         // Logic
     }
    public static void main(String[] args)
         Scanner sc = new Scanner(System.in);
         System.out.println("Enput String:");
         String str = sc.nextLine();
         System.out.println("Input String: "+str);
         System.out.println("String with Reverese Word:
"+reverseWord(str));
                       //reverseWord("ABC XY PQ")
    }
}
```



## 4. Java program to read and add two distances using class

In this java program, we will read two distances in feet and inches and find their sum, here program is implementing using class and objects concept.

Given program is used to read two distances (in feet and inches) and print their sum in feet and inches, note that if total inches are more than 12 then it would be consider as 1 feet.

#### Example:

Input:

Enter first distance:

Enter feet: 20 Enter inches: 10

Enter second distance:

Enter feet: 20 Enter inches: 10

Output:

Total distance is:

Feet: 41 Inches: 8



## 5. Write Java program to Transpose a Matrix.

```
import java.util.*;
public class TransposeMatrix
{
  public static void main(String args[])
   {
     int row, col;
     Scanner sc=new Scanner(System.in);
     //Read number of rows and cols
     System.out.print("Input number of rows: ");
     row=sc.nextInt();
     System.out.print("Input number of rows: ");
     col=sc.nextInt();
     //declare two dimensional array (matrices)
     int a[][]=new int[row][col];
     //Read elements of Matrix a
     System.out.println("Enter elements of matrix a:");
     for(int i=0; i < row; i++)
        for(int j=0; j<col; <math>j++)
        {
           System.out.print("Element [" + (i+1) + "," + (j+1) + "]?");
           a[i][j]=sc.nextInt();
        }
     }
     //print matrix a
     System.out.println("Matrix a:");
     for(int i=0; i< row; i++){
        for(int j=0; j<col; j++){
           System.out.print(a[i][j] + "\t");
        System.out.print("\n");
     //print matrix b
```

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```
System.out.println("::: Transpose Matrix ::: ");
  // Logic
  }
}
```

