Code Camp Day-2

**Participants must follow the order while solving the following questions:**

a.       **Write the algorithm.**

b.       **Write the source code. Give appropriate comments whenever it is necessary in the source code.**

c.       **Generate API documentation in HTML format from the java source code. Note: Use Javadoc.**

d.       **Compile and run the source code and finally produce the expected output.**

e.       **Note down the time taken for designing source code, compilation and successful execution of source code.**

f.        **Capture all above mentioned in a word document and upload into the LMS.**

1.       Take a input for 3 subject marks for 3 scholars for ECP-01 and 3 subject marks for 3 scholars for ECP-02 and find the subject wise average marks of ECP-01 and ECP-02.

Hint:   Subject1: Digital\_Logic

            Subject2: Networking

            Subject 3: JAVA

2.       WAP in Java to how to compare two array values and   and display :

1. Common values

2. Distinct Values.

     3.  Write a Java method to check whether a string is a valid password.

           Password rules:

           A password must have at least ten characters.

           A password consists of only letters and digits.

           A password must contain at least two digits.

4. Write a Java method to display the middle character of a string.

1.        Note:

 a) If the length of the string is odd there will be two middle characters.

 b) If the length of the string is even there will be one middle character.

 Test Data:

 Input a string : 350

 Expected Output:The middle character in the st

5. Write a java program to read a string and print whether the string is palindrome or not.

6. Write a program which accepts days as integer and display total number of years, months and days in it.

           Assume 1 Year = 365 Days

*Session-2*

7. In a company an employee is paid as under:

           If his basic salary is less than Rs. 1500, then HRA = 10% of basic salary and DA = 90%                 of basic salary.

If his salary is either equal to or above Rs. 1500, then HRA = Rs. 500 and DA =98% of basic salary.

If the employee's salary is taken from user write a program to find his gross salary.

8. Write a Java Program to find smallest of an int array. The array is of size 10 and values should be taken from user.

9. Write a Java program to accept 10 Strings in an array. And for each string print length and reverse string.

 Hint : use String method and StringBuffer class

10. Write a Program to Find the absolute maximum value of a given array of int

            Numbers.

            Hint : Absolute value is without sign(+ or -)

11. WAP in Java to print below pattern: \

                              \*

                             \*\*\*

                            \*\*\*\*\*

                          \*\*\*\*\*\*\*

                        \*\*\*\*\*\*\*\*\*

1. Note: No of rows should be accepted from user.

9)public class Test123456 {  
   
   static void rvereseArray(int arr[],int start, int end)  
   {  
       int temp;  
           
       while (start < end)  
       {  
           temp = arr[start];    
           arr[start] = arr[end];  
           arr[end] = temp;  
           start++;  
           end--;  
       }    
   }        
       
   
   static void printArray(int arr[],int size)  
   {  
       for (int i = 0; i < size; i++)  
            System.out.print(arr[i] + " ");  
           
        System.out.println();  
   }    
   
   
   public static void main(String args[]) {  
           
       int arr[] = {1, 2, 3, 4, 5, 6};  
       printArray(arr, 6);  
       rvereseArray(arr, 0, 5);  
       System.out.print("Reversed array is \n");  
       printArray(arr, 6);    
         
   }  
  
}

10

package CodeCamp2;  
  
public class Program10 {  
   private static int calculateDiff(int i, int j,int[] array)  
   {          
       return Math.abs(array[i] - array[j]) + Math.abs(i - j);  
   }    
   private static int maxDistance(int[] array)  
   {          
       int result = 0;    
       for (int i = 0; i < array.length; i++)    
       {  
           for (int j = i; j < array.length; j++)  
           {  
               result = Math.max(result, calculateDiff(i,j,array));  
           }  
       }  
       return result;  
   }  
   public static void main(String[] args)  
   {  
       int[] array = {1,3,2,9};  
       System.out.println(maxDistance(array));  
   }  
}

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| --- | --- |
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11  
public class Program11 {  
 public static void main(String args[]) {  
  for(int i = 1; i <= 5; ++i) {  
   for(int j = 5; j > i; --j)  
    System.out.print(" ");  
  
   for(int k = 1; k < (i\*2); ++k)  
    System.out.print("\*");  
  
   System.out.print("\n");  
  }  
 }  
}  
  
  
3  
  
import java.util.Scanner;  
public class Program3 {  
 public static final int PASSWORD\_LENGTH = 8;  
 public static void main(String[] args) {  
  Scanner input = new Scanner(System.in);  //initializing scanner  
  System.out.print("Input a password : ");  
  String s = input.nextLine();  
  if (is\_Valid\_Password(s)) {  
   System.out.println("Password is valid: " + s);  
  } else {  
   System.out.println("Not a valid password: " + s);  
  }  
 }  
 public static boolean is\_Valid\_Password(String password) {  
  if (password.length() < PASSWORD\_LENGTH)  
   return false;  
  int charCount = 0;  
  int numCount = 0;  
  for (int i = 0; i < password.length(); i++) {  
   char ch = password.charAt(i);  
   if (is\_Numeric(ch))  
    numCount++;  
   else if (is\_Letter(ch))  
    charCount++;  
   else  
    return false;  
  }  
  return (charCount >= 2 && numCount >= 2);  
 }  
 public static boolean is\_Letter(char ch) {  
  ch = Character.toUpperCase(ch);  
  return (ch >= 'A' && ch <= 'Z');  
 }  
 public static boolean is\_Numeric(char ch) {  
  return (ch >= '0' && ch <= '9');  
 }  
}  
  
2--- first half  
  
public class program1 {  
 public static void main(String[] args) {  
  System.out.println("enter the size of the array:");  
  Scanner sc= new Scanner(System.in);  
  int num=sc.nextInt();  
  int a[]=new int[num];  
  int b[]=new int[num];  
  int c[]=new int[num];  
  //int d[]=new int[num];  
  System.out.println("enter the values for first array");  
  for(int i=0;i<num;i++)  
  {  
   a[i]=sc.nextInt();  
  }  
  System.out.println("enter the values for first array");  
  for(int i=0;i<num;i++)  
  {  
   b[i]=sc.nextInt();  
  }  
  Arrays.sort(a);  
  Arrays.sort(b);  
  System.out.println("common values are:");  
  for(int i=0;i<num;i++)  
  {  
   for(int j=0;j<num;j++)  
   {  
   if(a[i]==b[j])  
   {  
    c[i]=a[i];  
   }}  
   System.out.print(c[i]+" ");  
  }  
9----------------------  
  
9th progra  
  
  
  
  
  
public class ReverseString  
  
{  
  
    public static void main(String[] args)  
  
    {  
  
        System.out.println("Enter string to reverse:");  
  
  
  
        Scanner read = new Scanner(System.in);  
  
        String str = read.nextLine();  
  
        String reverse = "";  
  
  
  
  
  
        for(int i = str.length() - 1; i >= 0; i--)  
  
        {  
  
            reverse = reverse + str.charAt(i);  
  
        }  
  
  
  
        System.out.println("Reversed string is:");  
  
        System.out.println(reverse);  
  
    }  
  
}  
  
  
  
  
  
  
  
  
  
import java.util.Scanner;  
  
  
  
public class JavaProgram  
  
{  
  
   public static void main(String args[])  
  
   {  
  
      String str;  
  
      int len;  
  
      Scanner scan = new Scanner(System.in);  
  
  
  
      System.out.print("Enter Your Name : ");  
  
      str = scan.nextLine();  
  
      len = str.length();  
  
  
  
      System.out.print("Length of Entered String is " + len);  
  
   }  
  
}  
  
  
  
  
  
  
----------5  
  
5  
  
public class Palindrome  
  
{  
  
    public static void main(String args[])  
  
    {  
  
        String a, b = "";  
  
        Scanner s = new Scanner(System.in);  
  
        System.out.print("Enter the string you want to check:");  
  
        a = s.nextLine();  
  
        int n = a.length();  
  
        for(int i = n - 1; i >= 0; i--)  
  
        {  
  
            b = b + a.charAt(i);  
  
        }  
  
        if(a.equalsIgnoreCase(b))  
  
        {  
  
            System.out.println("The string is palindrome.");  
  
        }  
  
        else  
  
        {  
  
            System.out.println("The string is not palindrome.");  
  
        }  
  
    }  
  
}  
--------6  
  
6  
  
  
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Attachments area

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mport java.util.Scanner;  
  
public class Palindrome  
{  
   public static void main(String args[])  
   {  
       String a, b = "";  
       Scanner s = new Scanner(System.in);  
       System.out.print("Enter the string you want to check:");  
       a = s.nextLine();  
       int n = a.length();  
       for(int i = n - 1; i >= 0; i--)  
       {  
           b = b + a.charAt(i);  
       }  
       if(a.equalsIgnoreCase(b))  
       {  
           System.out.println(" palindrome.");  
       }  
       else  
       {  
           System.out.println(" not palindrome.");  
       }  
   }  
}

pyr

kage codeCamp2;  
import java.util.Scanner;  
public class Pyramid {  
  
   public static void main(String args[]) {  
   int num;  
    System.out.println("Pyramid pattern of star in Java : ");  
      Scanner sc=new Scanner(System.in);  
      System.out.println("enter number of rows");  
      num=sc.nextInt();  
       for (int i = 1; i < num; i++) {  
           for (int j = 1; j < num - i; j++) {  
               System.out.print(" ");  
           }  
           for (int k = 0; k!=(2\*i)-1; k++) {  
               System.out.print("\*");  
           }  
           System.out.println();  
       }  
   }  
     
}

emp

public class EmployeeSalary {

public static void main(String args[]) {

Scanner sc =new Scanner(System.in);

float basicSal=0.00f;

float hra=0.0f,da=0.0f,grossSal=0.0f;

System.out.println("enter employee basic salary");

basicSal=sc.nextFloat();

if(basicSal<1500) {

hra= 0.1f\*basicSal;

da=0.05f\*basicSal;

grossSal= hra+da+basicSal;

System.out.println("Gross Salary:"+grossSal);

}

else if(basicSal>=1500) {

hra= 500;

da=0.98f\*basicSal;

grossSal= hra+da+basicSal;

System.out.println("Gross Salary:"+grossSal);

}

}

}

8

public class Program8 {    
public static int getSmallest(int[] a, int total){    
int temp;  
for (int i = 0; i < total; i++)    
       {    
           for (int j = i + 1; j < total; j++)    
           {    
               if (a[i] > a[j])    
               {    
                   temp = a[i];    
                   a[i] = a[j];    
                   a[j] = temp;    
               }    
           }    
       }    
      return a