CSA0976 Java Programming

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Assignment 2
1.Code:
i. Code:
import java.io.*;
import java.util.*;
class stringoperation1
{
      public static void main(String arg[])
      {
            String s1,s2;
            Scanner s=new Scanner(System.in);
            System.out.print("Enter String 1 :");
            s1=s.nextLine();
            System.out.print("Enter String 2 :");
            s2=s.nextLine();
            int result=s1.compareToIgnoreCase(s2);
            if(result==0)
            {
                  System.out.print("Both Strings are Equal by ignoring case
difference");
            }
            else
            {
```

```
System.out.print("Both Strings are not Equal by ignoring
case difference");
            }
      }
Output:
 Enter String 1 :Enter String 2 :java program
 Both Strings are not Equal by ignoring case difference
ii. Code:
import java.io.*;
import java.util.*;
class stringoperation2
{
      public static void main(String arg[])
      {
            String str1 = "The Quick Brown Fox Jumps Over The Lazy Dog";
    String str2 = "The Quick Brown Fox Jumps Over The Lazy Dogs";
    String end_str = "gs";
    boolean ends1 = str1.endsWith(end_str);
    boolean ends2 = str2.endsWith(end_str);
    System.out.println("\"" + str1 + "\" ends with " +"\"" + end_str + "\"= " +
ends1);
    System.out.println("\"" + str2 + "\" ends with " +"\"" + end_str + "\"= " +
ends2);
}
```

```
"The Quick Brown Fox Jumps Over The Lazy Dog" ends with "gs"= false
"The Quick Brown Fox Jumps Over The Lazy Dogs" ends with "gs"= true
```

```
iii. Code:
```

```
import java.io.*;
import java.util.*;
class stringoperation3
{
    public static void main(String arg[])
    {
        Calendar c = Calendar.getInstance();
        System.out.println("Current Date and Time :");
        System.out.format("%tB %te, %tY%n", c, c, c);
        System.out.format("%tl:%tM %tp%n", c, c, c);
    }
}
```

Output:

```
Current Date and Time :March 22, 2023 5:10 pm
```

iv. Code:

import java.io.*;

```
import java.util.*;
class stringoperation4
{
      public static void main(String arg[])
       {
             String str = "The quick brown fox jumps over the lazy dog.";
      int a = str.indexOf("a", 0);
      int b = str.indexOf("b", 0);
      int c = str.indexOf("c", 0);
      int d = str.indexOf("d", 0);
      int e = str.indexOf("e", 0);
      int f = str.indexOf("f", 0);
      int g = str.indexOf("g", 0);
      int h = str.indexOf("h", 0);
      int i = str.indexOf("i", 0);
      int j = str.indexOf("j", 0);
      int k = str.indexOf("k", 0);
      int l = str.indexOf("l", 0);
      int m = str.indexOf("m", 0);
      int n = str.indexOf("n", 0);
      int o = str.indexOf("o", 0);
      int p = str.indexOf("p", 0);
      int q = str.indexOf("q", 0);
      int r = str.indexOf("r", 0);
      int s = str.indexOf("s", 0);
      int t = str.indexOf("t", 0);
      int u = str.indexOf("u", 0);
      int v = str.indexOf("v", 0);
```

```
int w = str.indexOf("w", 0);
int x = str.indexOf("x", 0);
int y = str.indexOf("y", 0);
int z = str.indexOf("z", 0);
System.out.println(" a b c d e f g h i j");
System.out.println("=======");
System.out.println(a + " " + b + " " + c + " " + d + " " +
           e + " " + f + " " + g + " " + h + " " +
           i + "" + j + "\n");
System.out.println("k 1 m n o p q r s t");
System.out.println("=======");
System.out.println(k + " " + 1 + " " + m + " " + n + " " +
           o + " " + p + " " + q + " " + r + " " +
           s + "" + t + "\n");
System.out.println("u v w x y z");
System.out.println("=======");
System.out.println(u + " " + v + " " + w + " " + x + " " +
           y + "" + z);
}
```

```
v. Code:
import java.io.*;
import java.util.*;
class stringoperation5
{
      public static void main(String arg[])
            String str = "The quick brown fox jumps over the lazy dog.";
      String new_str = str.replaceAll("fox", "cat");
      System.out.println("Original string: " + str);
      System.out.println("New String: " + new_str);
      }
}
Output:
 java -cp /tmp/VHiFCgDEdY stringoperation5
 Original string: The quick brown fox jumps over the lazy dog. New String
     : The quick brown cat jumps over the lazy dog.
vi. Code:
import java.io.*;
import java.util.*;
class stringoperation6
{
      public static void main(String arg[])
            String str = "The quick brown fox jumps over the lazy dog.";
String new_str = str.substring(10, 26);
```

```
System.out.println("old = " + str);
System.out.println("new = " + new_str);
}
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation6.java

C:\Users\saran\OneDrive\Desktop\Java>java stringoperation6
old = The quick brown fox jumps over the lazy dog.
new = brown fox jumps

C:\Users\saran\OneDrive\Desktop\Java>
```

vii. Code:

```
import java.io.*;
import java.util.*;
class stringoperation7
{
    public static void main(String arg[])
    {
        String str = " The quick brown fox jumps over the lazy dog. ";
        String new_str = str.trim();
            System.out.println("Original String: " + str);
            System.out.println("New String: " + new_str);
        }
}
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation7.java
C:\Users\saran\OneDrive\Desktop\Java>java stringoperation7
Original String: The quick brown fox jumps over the lazy dog.
New String: The quick brown fox jumps over the lazy dog.
C:\Users\saran\OneDrive\Desktop\Java>
```

```
viii. Code:
import java.io.*;
import java.util.*;
class stringoperation8
{
      public static void main(String arg[])
            String str = "The quick brown fox jumps over the lazy dog";
            String lowerStr = str.toLowerCase();
            System.out.println("Original String: " + str);
            System.out.println("String in lowercase: " + lowerStr);
      }
}
Output:
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation8.java
 C:\Users\saran\OneDrive\Desktop\Java>java stringoperation8
Original String: The Quick Brown Fox Jumps Over The Lazy Dog
 String in lowercase: the quick brown fox jumps over the lazy dog
C:\Users\saran\OneDrive\Desktop\Java>
ix. Code:
import java.io.*;
import java.util.*;
class stringoperation9
{
      public static void main(String arg[])
            String str = "The quick brown fox jumps over the lazy dog";
            int len = str.length();
```

```
System.out.println("The string length of "'+str+"' is: "+len);
}
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation9.java
C:\Users\saran\OneDrive\Desktop\Java>java stringoperation9
The string length of 'The quick brown fox jumps over the lazy dog' is: 43
C:\Users\saran\OneDrive\Desktop\Java>
```

x. Code:

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation10.java
C:\Users\saran\OneDrive\Desktop\Java>java stringoperation10
"The quick brown fox jumps over the lazy dog" equals "The quick brown fox jumps over the lazy dog"=true
C:\Users\saran\OneDrive\Desktop\Java>
```

```
import java.io.*;
import java.util.*;
class Account
{
      static double balance=0;
      public static void main(String arg[])
             Scanner s=new Scanner(System.in);
             while(true)
             {
                   System.out.print("Press 1 to continue...");
                   int y=s.nextInt();
                   if(y==1)
                          choice();
                   else
                          break;
                   }
             }
      public static void Account()
      System.out.println(balance);
      }
```

```
public static void deposit(double amount)
balance += amount;
      System.out.println("Amount is deposited");
public static void withdraw(double amount)
if (balance >= amount)
      balance -= amount;
            System.out.println(amount+" is withdrawed");
}
      else
      {
      System.out.println("Insufficient funds");
}
public static void choice()
      System.out.println("1.Check Balance");
      System.out.println("2.Deposit");
      System.out.println("3.Withdraw");
      System.out.print("Enter your choice");
      Scanner s1=new Scanner(System.in);
      int i=s1.nextInt();
      if(i==1)
      {
            Account();
```

```
}
            else if(i==2)
             {
                   System.out.print("Enter amount to be deposit :");
                   int amount=s1.nextInt();
                   deposit(amount);
             }
            else if(i==3)
             {
                   System.out.print("Enter amount to be withdraw :");
                   int amount=s1.nextInt();
                   withdraw(amount);
             }
            else
             {
                   System.out.print("Invalid Choice ");
             }
      }
}
Output:
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac account.java
C:\Users\saran\OneDrive\Desktop\Java>java Account
Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice2
Enter amount to be deposit :500
Amount is deposited
Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice1
500.0
Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice3
Enter amount to be withdraw :300
300.0 is withdrawed
Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice1
200.0
Press 1 to continue...
```

```
int index = haystack.indexOf(needle);
if (index == -1)
{
         System.out.println(needle+" not found in "+haystack);
}
else
{
         System.out.println(needle+" found at index " + index);
}
}
```

```
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>javac NeedleHaystack.java

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>java NeedleHaystack
Haystack :sadbut
needle :sad
sad found at index 0

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>java NeedleHaystack
Haystack :leetcode
needle :leeto
leeto not found in leetcode

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>
```

```
import java.io.*;
import java.util.*;
class lastword
{
    public static void main(String arg[])
    {
        String s;
        Scanner c=new Scanner(System.in);
        System.out.print("Enter a String :");
```

```
s=c.nextLine();
             System.out.print("Length of last word:"+lengthOfLastWord(s));
      }
      public static int lengthOfLastWord(String s)
      int count = 0;
      s = s.trim();
      int start = s.length() - 1;
      for(int i=start; i >= 0; i--)
             if(s.charAt(i) == ' ')
                   break;
             count++;
      return count;
}
```

```
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>javac lastword.java

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>java lastword

Enter a String :good morning

Length of last word :7

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-2 Assignment>
```

```
import java.io.*;
import java.util.*;
class factor
{
      public static void main(String args[])
      try
             {
             Scanner sc=new Scanner(System.in);
             int count=0,n,i,j=0,m=4;
             int []a=new int [10];
             System.out.print("Enter the number:");
             n=sc.nextInt();
                   if(n \le 0)
             {
                   System.out.println("Enter valid number");
             }
             else
                   for(i=1;i<=n;i++)
                    {
                          if(n\%i==0)
                          {
                                 a[j] = i;
                                       System.out.println("..." + i);
                                 count++;
```

```
j++;
}

System.out.println("The number of factors:"+count);
}

System.out.println(m + "th item " + a[m-1]);
}

catch(Exception e)
{
    System.out.println("Enter only numbers");
}
}
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac factor.java

C:\Users\saran\OneDrive\Desktop\Java>java factor
Enter the number:6
...1
...2
...3
...6
The number of factors:4
4th item 6

C:\Users\saran\OneDrive\Desktop\Java>
```