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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:
 C:\Users\saran\OneDrive\Desktop\Java>java stringoperation1
 Enter String 1 :The quick brown fox
 Enter String 2 :The lazy dog
 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);
      }
}
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation2.java
C:\Users\saran\OneDrive\Desktop\Java>java stringoperation2
"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:
 C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation3.java
 C:\Users\saran\OneDrive\Desktop\Java>java stringoperation3
 Current Date and Time :
 March 21, 2023
 11:22 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 = \text{str.indexOf}("j", 0);
int k = str.indexOf("k", 0);
int 1 = str.indexOf("1", 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("=======");
```

v. Code:

```
import java.io.*;
import java.util.*;
class stringoperation5
{
```

```
C:\Users\saran\OneDrive\Desktop\Java>javac stringoperation5.java

C:\Users\saran\OneDrive\Desktop\Java>java stringoperation5
Original string: The quick brown fox jumps over the lazy dog.
New String: The quick brown cat jumps over the lazy dog.

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

```
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);
      }
}
Output:
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);
      }
}
Output:
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:
import java.io.*;
import java.util.*;
class stringoperation10
{
    public static void main(String arg[])
    {
        String columnist1 = "The quick brown fox jumps over the lazy dog";
        String columnist2 = "The quick brown fox jumps over the lazy dog";
        boolean equals1 = columnist1.equals(columnist2);
        System.out.println("\"" + columnist1 + "\" equals \"" + columnist2 + "\"=" + equals1);
        }
}
Output:
```

```
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);
```

```
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...
```

```
import java.io.*;
import java.util.*;
class NeedleHaystack
{
    public static void main(String[] args)
    {
```

```
String needle;
String haystack;
      Scanner c=new Scanner(System.in);
      System.out.print("Haystack :");
      haystack=c.nextLine();
      System.out.print("needle :");
      needle=c.nextLine();
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 \ge 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)
```

```
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>
```