

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 :there are three boxes
Enter String 2 :there are two boxes
Both Strings are not Equal by ignoring case difference
C:\Users\91956\OneDrive\Desktop>_

```

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("\n" + str1 + "\" ends with \"" + end_str + "\" = " +
ends1);
        System.out.println("\n" + str2 + "\" ends with \"" + end_str + "\" = " +
ends2);
    }
}

```

Output:



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```
"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  
10:27 am
```

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 l m n o p q r s t");
        System.out.println("=====");
        System.out.println(k + " " + l + " " + 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);
    }
}

```

Output:

```

a b c d e f g h i j
=====
36 10 7 40 2 16 42 1 6 20

k l m n o p q r s t
=====
8 35 22 14 12 23 4 11 24 31

u v w x y z
=====
5 27 13 18 38 37

```

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:

```

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);
    }
}

```

Output:

```

old = The quick brown fox jumps over the lazy dog.
new = brown fox jumps

```

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:

```

Original String: The quick brown fox jumps over the lazy dog.
New String: The quick brown fox jumps over the lazy dog.

```

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:

```

Original String: The quick brown fox jumps over the lazy dog
String in lowercase: the quick brown fox jumps over the lazy dog

```

ix. Code:

```

import java.io.*;

```



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```

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:

```
The string length of 'The quick brown fox jumps over the lazy dog' is: 43
```

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:

```
"The quick brown fox jumps over the lazy dog" equals "The quick brown fox jumps over the lazy dog"=true
```



2.Code:

```
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 withdrew");
    }

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

```

Output:

```

Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice2
Enter amount to be deposit :1000
Amount is deposited
Press 1 to continue...1
1.Check Balance
2.Deposit
3.Withdraw
Enter your choice1
1000.0
Press 1 to continue...3

```

3.Code:

```
import java.io.*;
```



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```

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);
        }
    }
}

```

Output:

```

Haystack :leetcode
needle :leeto
leeto not found in leetcode

```

4.Code:

```

import java.io.*;

```



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```

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;
    }
}

```



Output:

```
C:\Users\91956\OneDrive\Desktop>javac lastword.java
C:\Users\91956\OneDrive\Desktop>java lastword
Enter a String :good day
Length of last word :3
```

5.Code:

```
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<=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");
}
}
}

```

Output:

```

Enter the number:6
...1
...2
...3
...6
The number of factors:4
4th item 6

```

