CSA0976 Java Programming

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Assignment 2

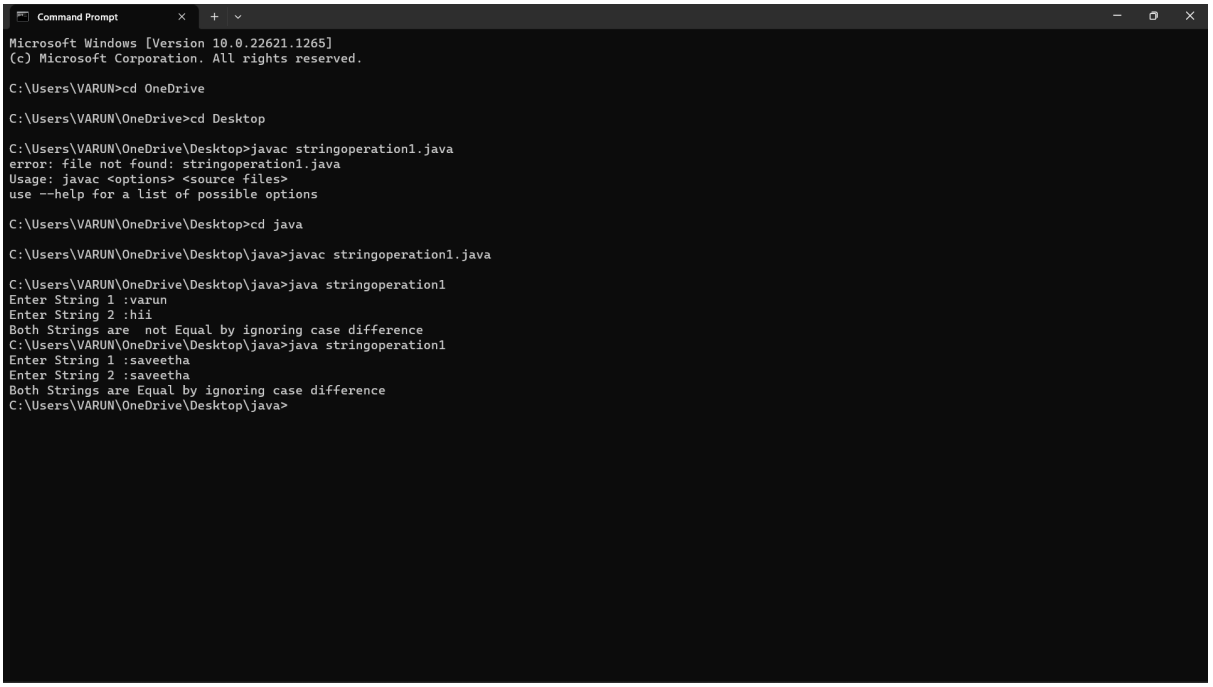
1.Code:

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:

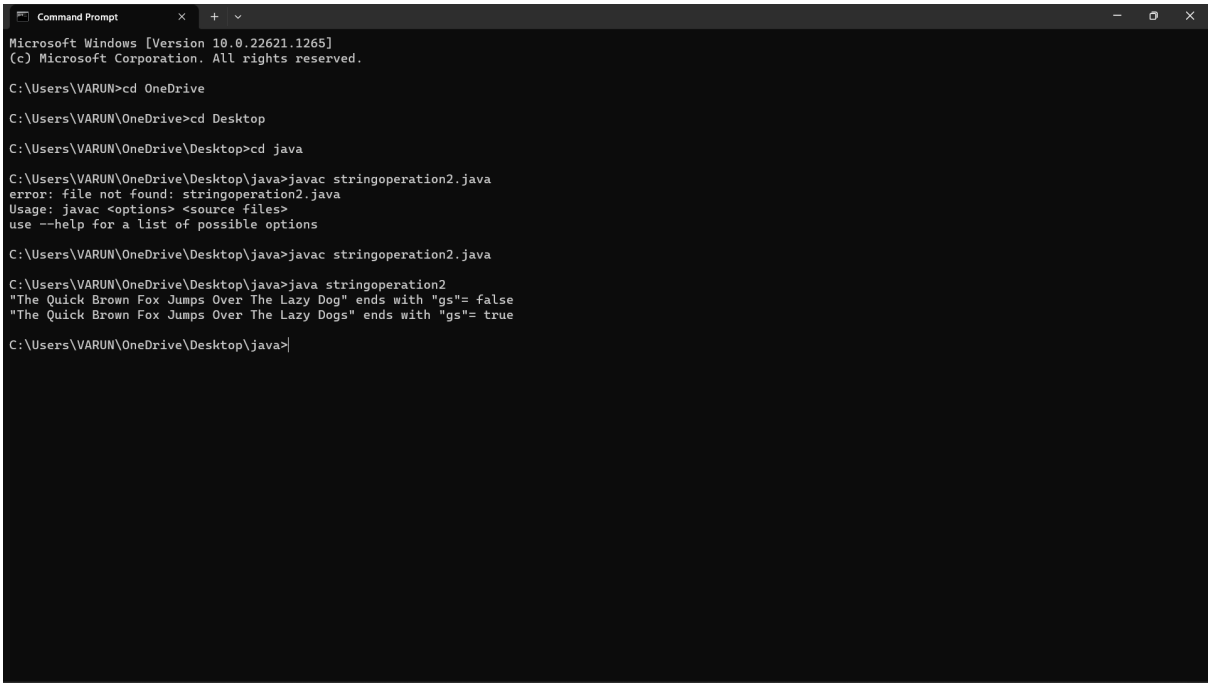


ii. Code:

```
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);
        }
}
```

Output:

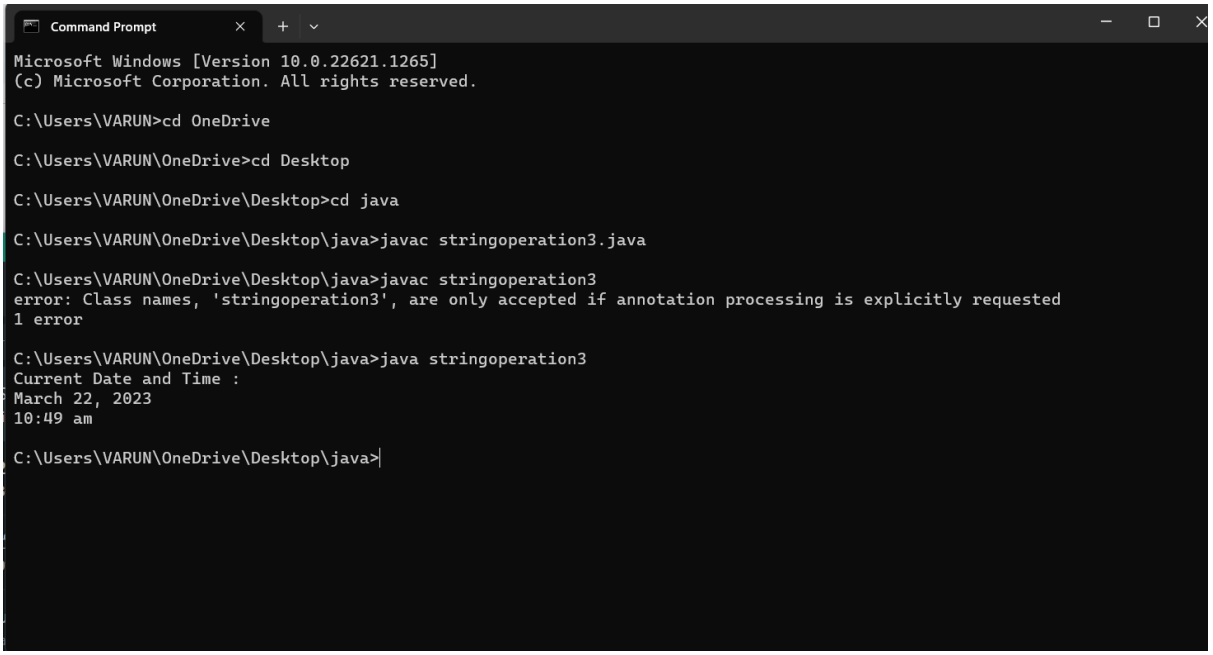


iii. Code:

```
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:



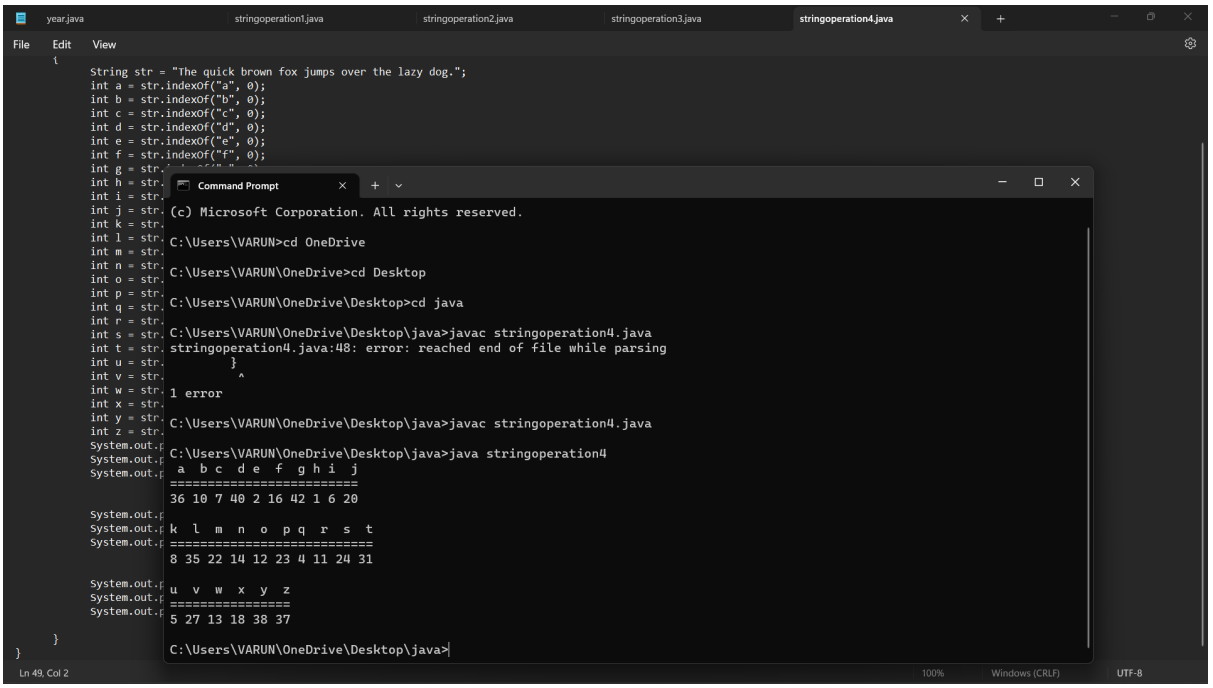
iv. Code:

```
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:

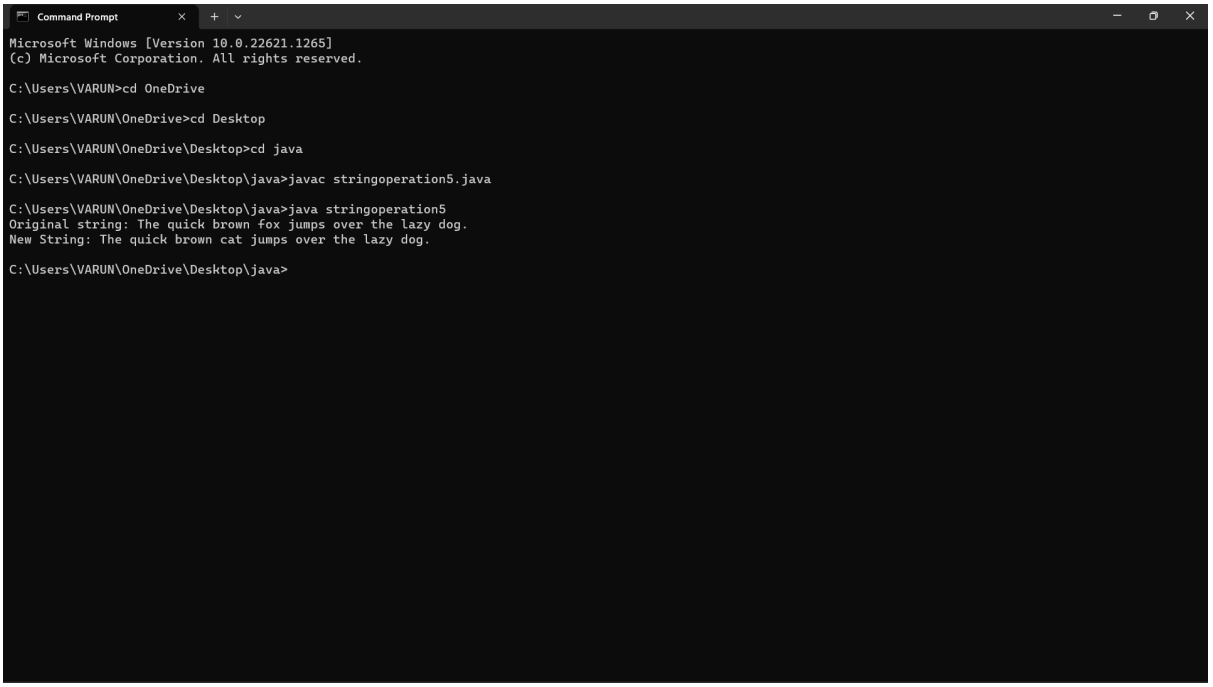


v. Code:

```
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);
        }
}
```

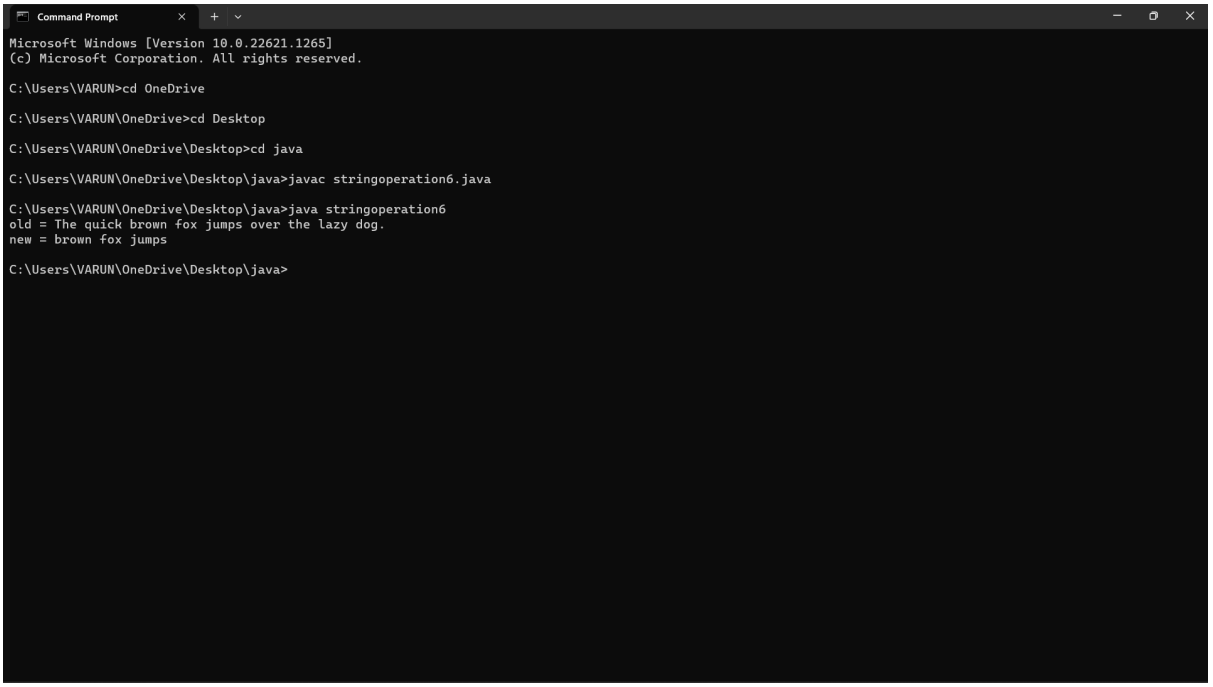
Output:



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);
        }
}
```

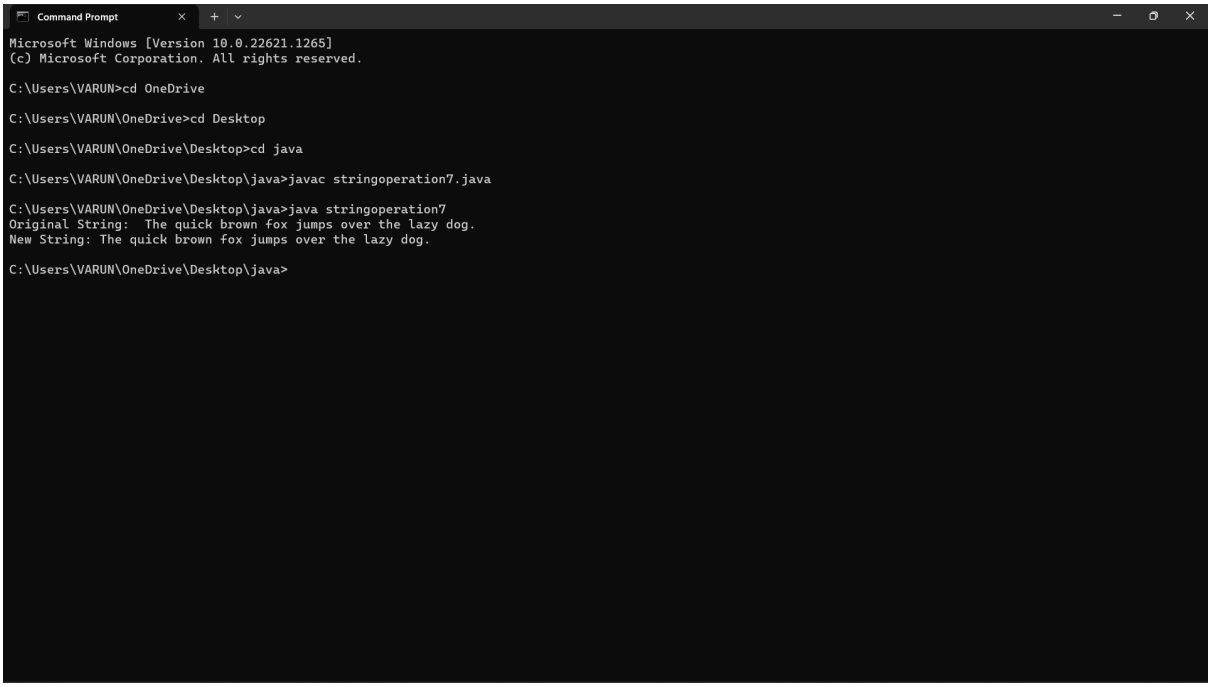
Output:



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);
	}
}
```

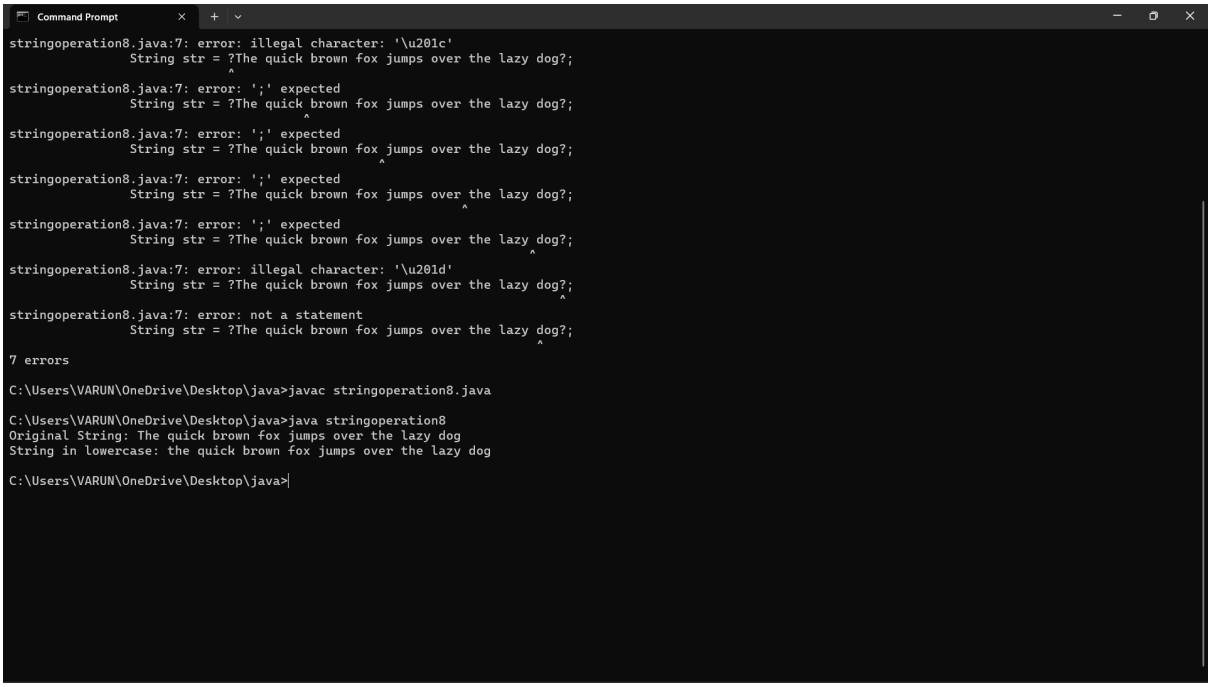
Output:



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);
	}
}
```

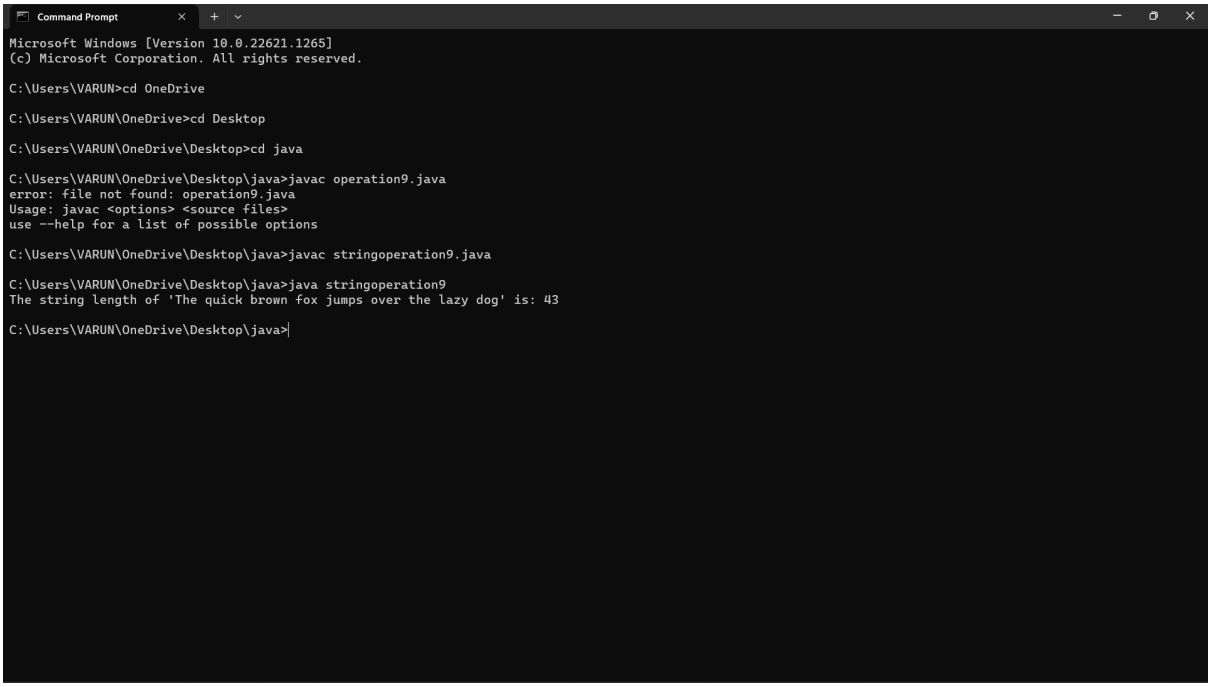
Output:



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);
	}
}
```

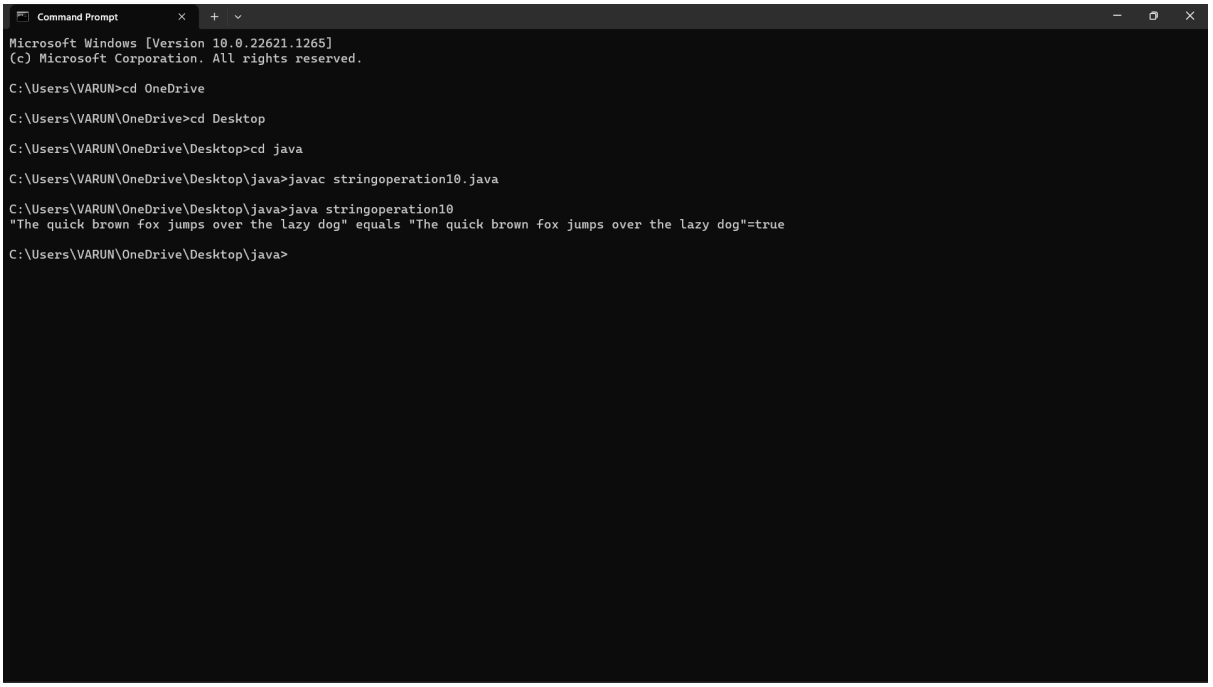
Output:



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:



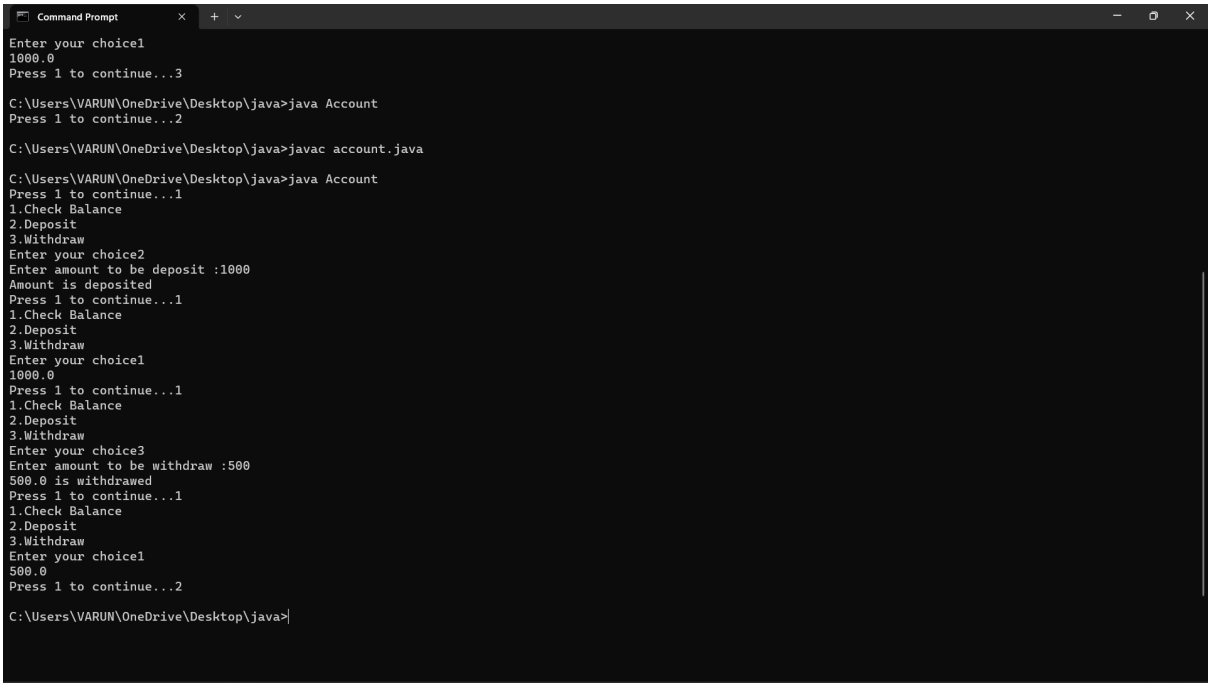
2.Code:

```
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 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:

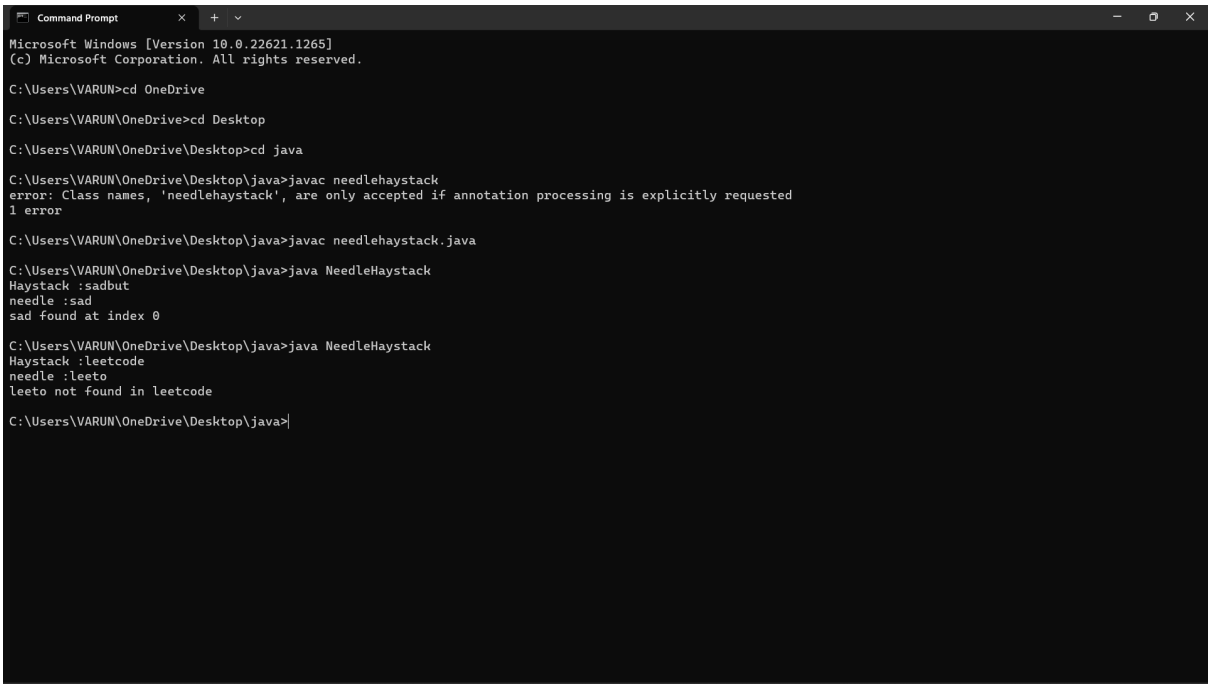


3.Code:

```
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);
        }
        }
}
```

Output:



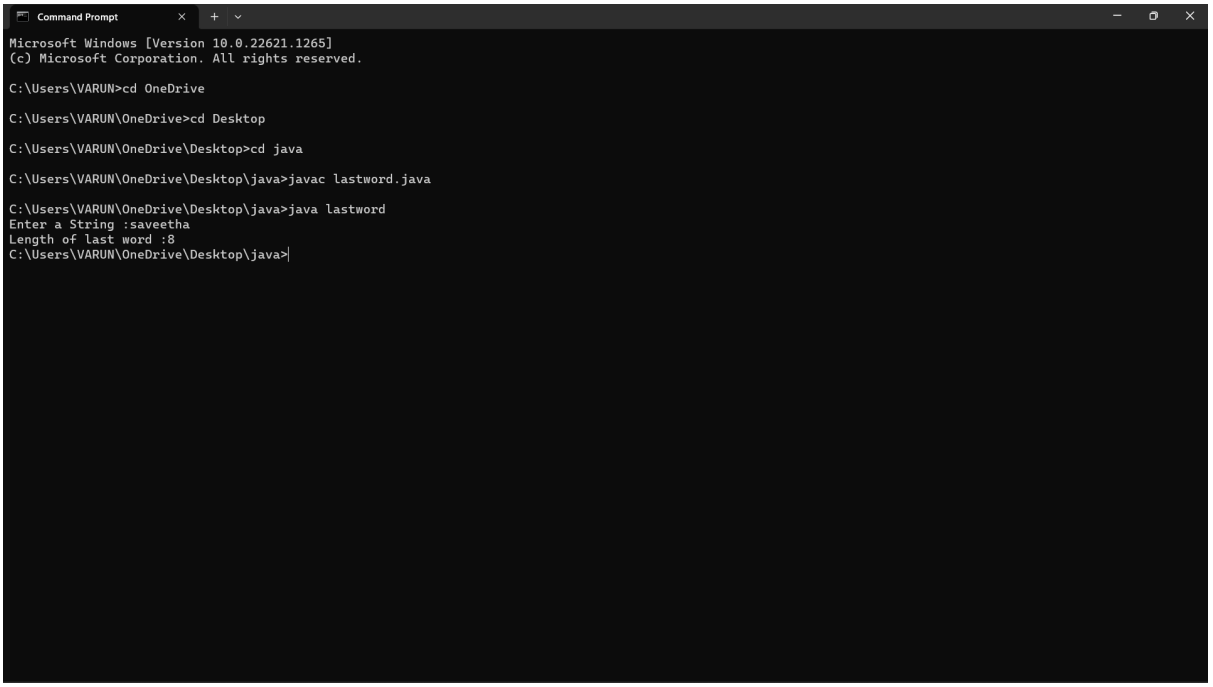
4.Code:

```
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;
    }
}
```

Output:

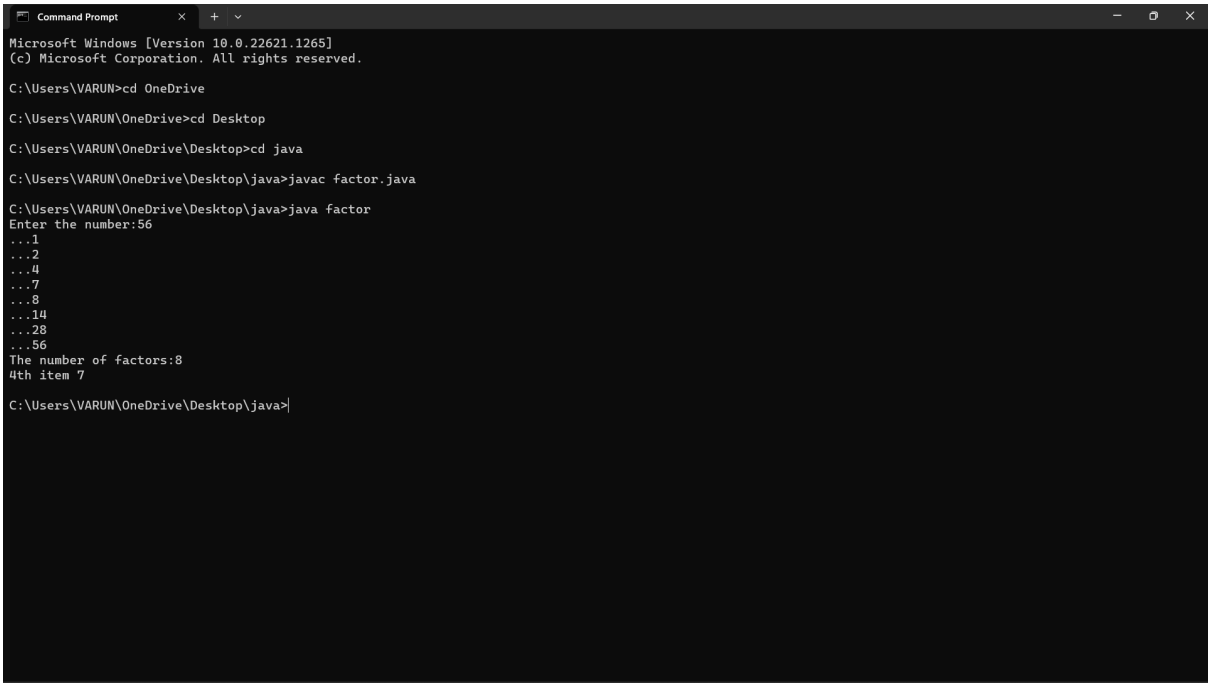


5.Code:

```
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:


Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.
C:\Users\VARUN>cd OneDrive
C:\Users\VARUN\OneDrive>cd Desktop
C:\Users\VARUN\OneDrive\Desktop>cd java
C:\Users\VARUN\OneDrive\Desktop\java>javac factor.java
C:\Users\VARUN\OneDrive\Desktop\java>java factor
Enter the number:56
...1
...2
...4
...7
...8
...14
...28
...56
The number of factors:8
4th item 7
C:\Users\VARUN\OneDrive\Desktop\java>