CSA0979 Java programming

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2) *import java.util.*;*

```
class Account
{
  double balance;
  Account()
  {
    balance = 0;
  }
  Account(double sum)
  {
   balance = sum;
  }
  double add(double sum)
  {
    balance += sum;
    return sum;
   }
  double withdraw(double sum)
  {
    if (sum > balance) {
      balance -= 5;
      return -5;
```

```
    }
    else {
      this.balance -= sum;
      return balance; // Notice: always >= 0 (never < 0)
    }
  }
  double inquire()
  {
    return balance;
  }
    double interest (double rate)
  {
    return rate * balance;
  }
}
class bank1
{
public static void main(String args[])
{
        try
        {
            Scanner s=new Scanner(System.in);

            System.out.println("Enter account holder name:");
            String s1=s.next();
            System.out.println("Enter account type:");
```

```
        String s2=s.next();
int b=0;
        System.out.println("Enter the initial value");

b=s.nextInt();
Account A;
if (b==0){
A = new Account();
}
else{
A = new Account(b);
}

System.out.println("Enter the amount to withdraw");
b=s.nextInt();

double d = A.withdraw(b);
        System.out.println("Account holder name:"+s1);
        System.out.println("Account type:"+s2);
if (d == -5) {
System.out.println("Penaly RS. -5 is charged since insufficient balance");
System.out.println("Currrent balance" + A.inquire());
}
else{
System.out.println("Now balance after withdraw of"+ A.inquire() + "is" + d);
}
```

System.out.println("Interest for current balance" + A.inquire() + " is " + A.interest(0.006));

}

catch(Exception e)

{

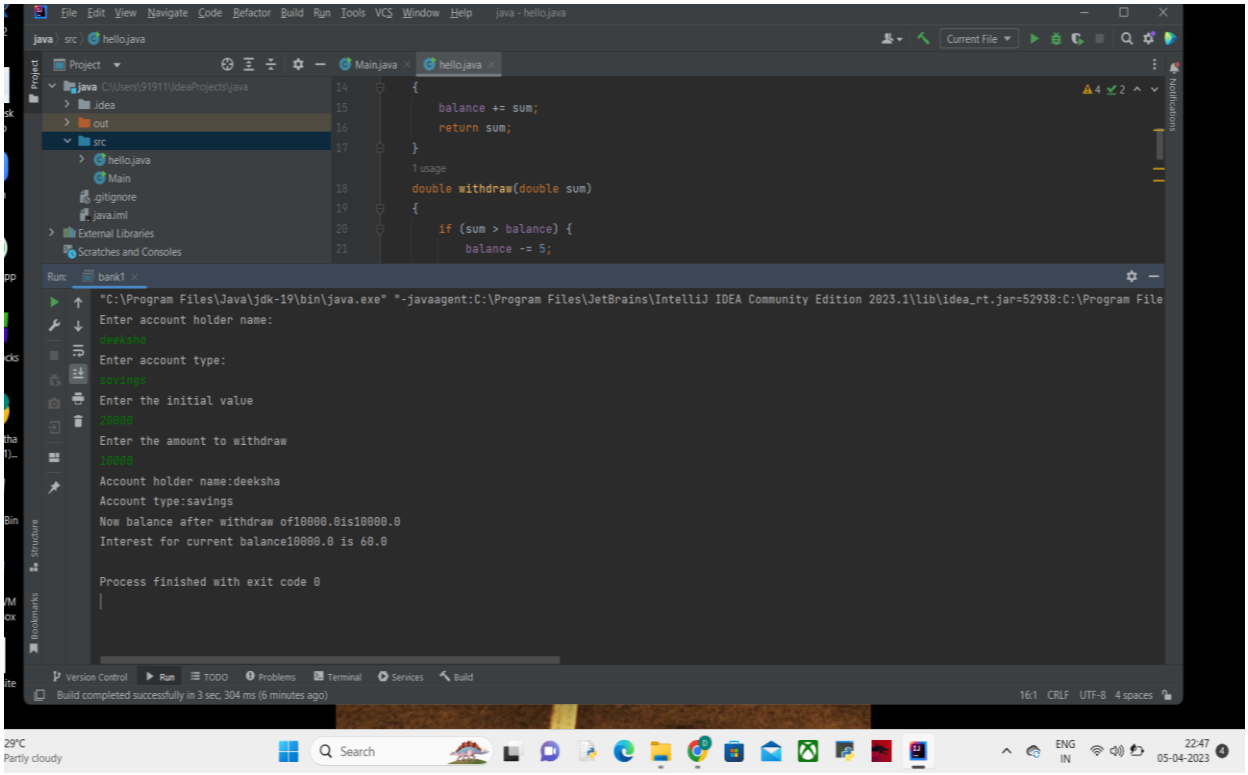
System.out.println("Due to character exception");

}

}

}

OUTPUT:

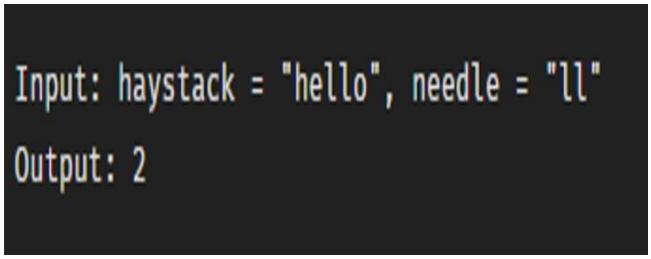


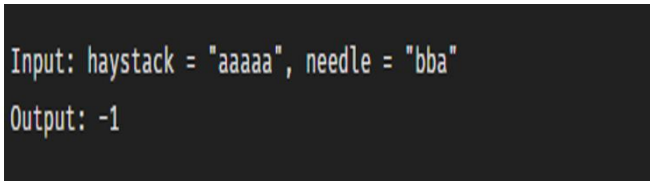
3)

```
public class ImplementStrStr {


    public int strStr(String haystack, String needle) {
```

```
        if (haystack == null || needle == null) {
            return -1;
        }
             if (haystack.equals(needle)) {
            return 0;
        }
        int needleLength = needle.length()
        for (int i = 0; i < haystack.length() - needleLength + 1; i++) {

            if (haystack.substring(i, i + needleLength).equals(needle)) {
                return i;
            }
        }
        return -1;
    }
}
```

OUTPUT:





1)

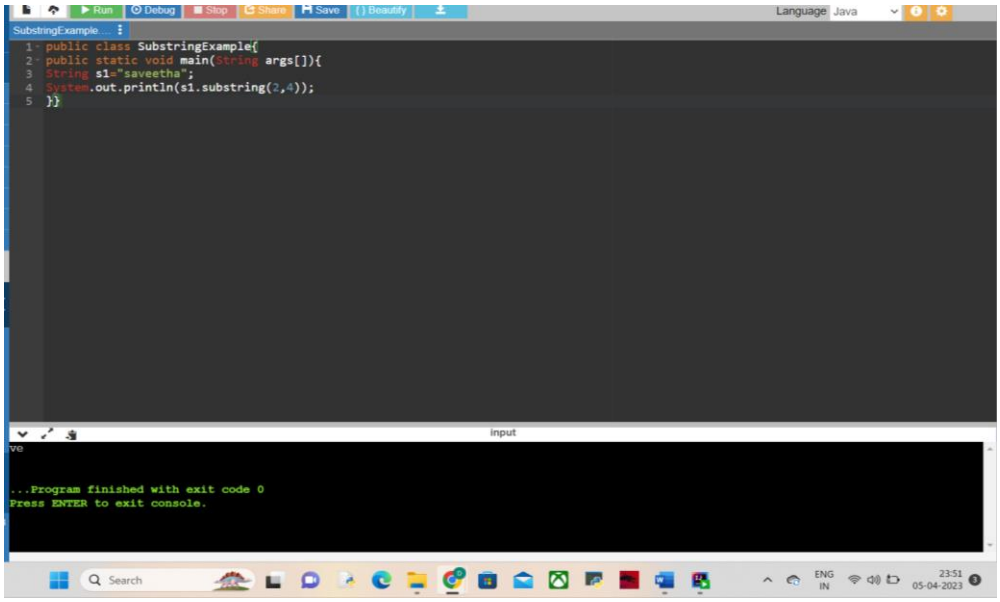
a) public class SubstringExample{

public static void main(String args[]){

String s1="saveetha";

System.out.println(s1.substring(2,4));

}}



b) public class StringTrimExample{

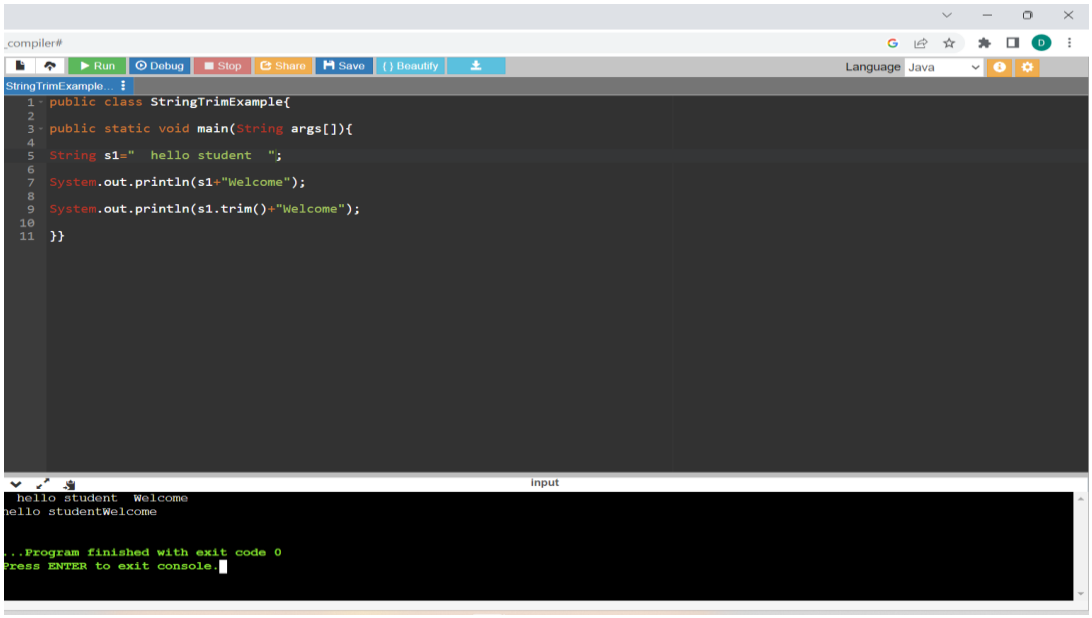
public static void main(String args[]){

String s1=" hello student   ";

System.out.println(s1+"Welcome");

System.out.println(s1.trim()+"Welcome");

}}



c) public class LengthExample{

public static void main(String args[]){

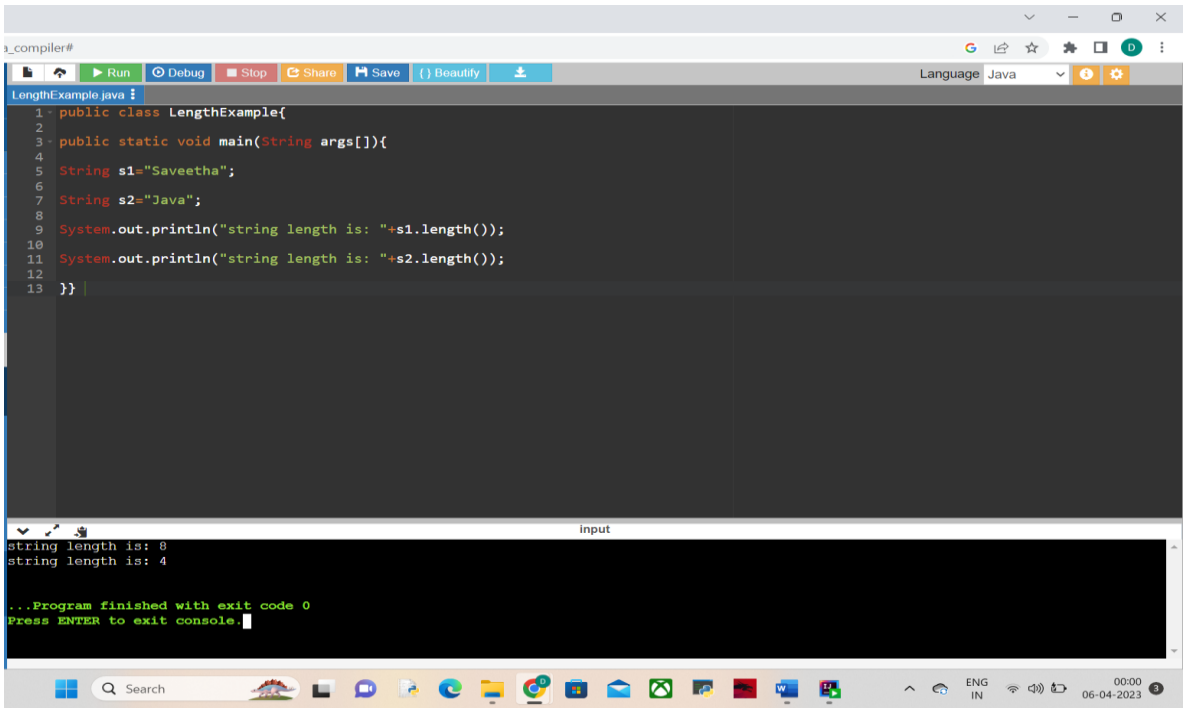
String s1="Saveetha";

String s2="Java";

System.out.println("string length is: "+s1.length());

System.out.println("string length is: "+s2.length());

}}



d) String txt = "Hello World";

System.out.println(txt.toUpperCase());

System.out.println(txt.toLowerCase());

```
HELLO WORLD
hello world
```

e) class Teststringcomparison1{

public static void main(String args[]){

String s1="deeksha";

String s2="deeksha”;

String s3=new String("deekshitha");

String s4="thippabathuni";

System.out.println(s1.equals(s2));

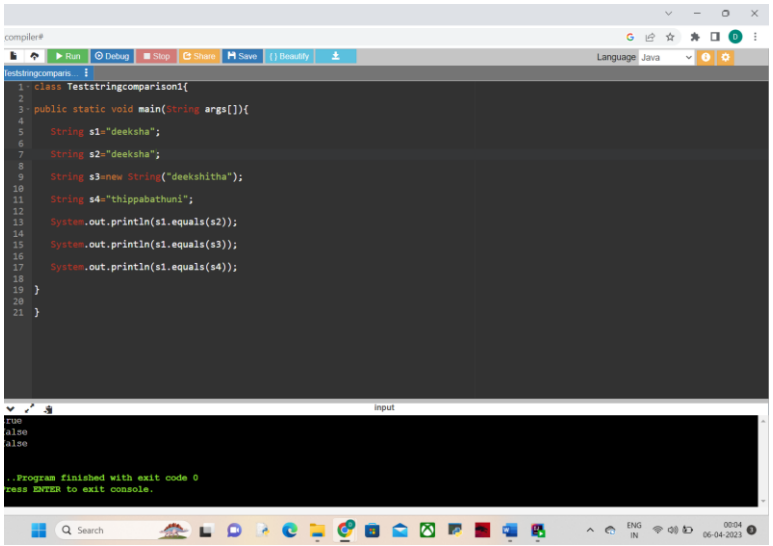
System.out.println(s1.equals(s3));

System.out.println(s1.equals(s4));

}

}

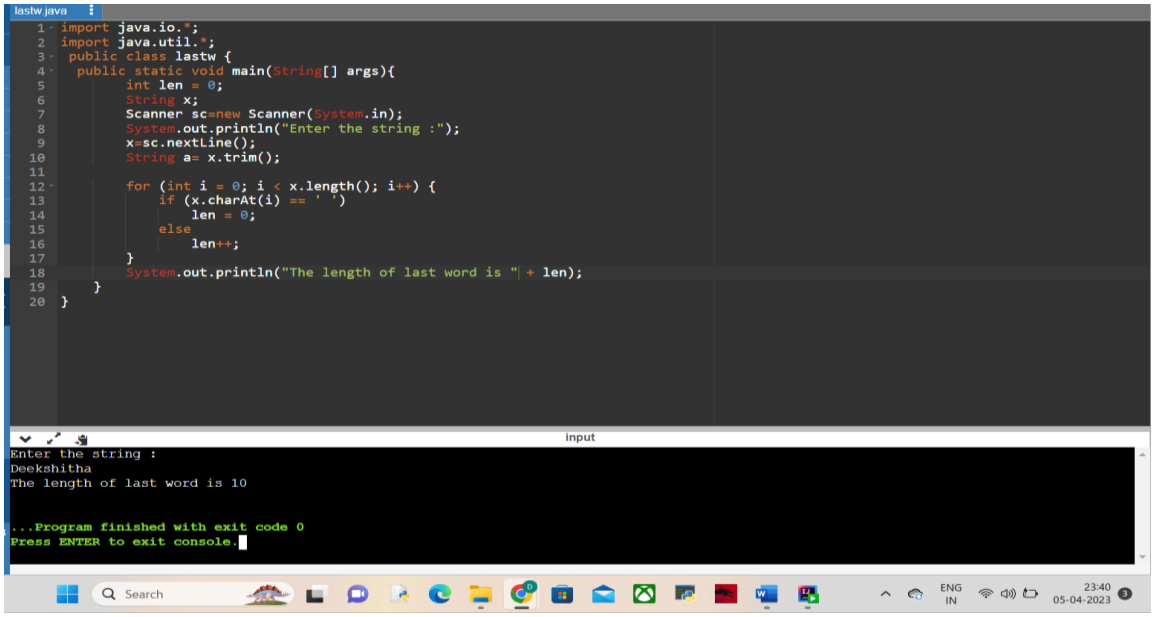
OUTPUT:



4)

```
import java.io.*;
import java.util.*;
public class lastw {
public static void main(String[] args){
        int len = 0;
        String x;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the string :");
        x=sc.nextLine();
        String a= x.trim();

        for (int i = 0; i < x.length(); i++) {
           if (x.charAt(i) == ' ')
              len = 0;
           else
              len++;
        }
        System.out.println("The length of last word is "
                        + len);
    }
}
```

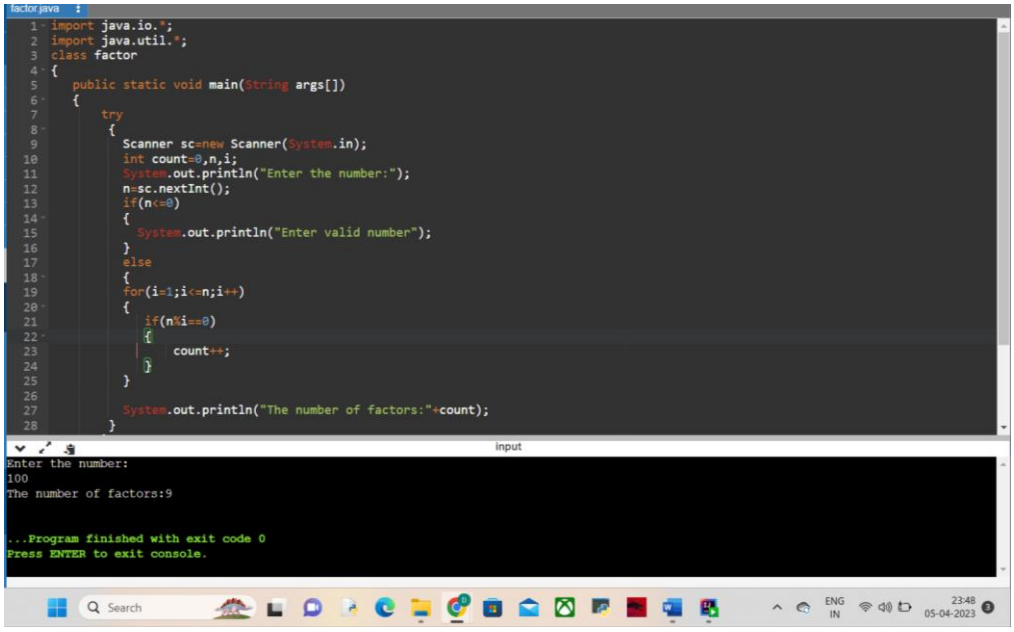
OUTPUT:



5)

```
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;
        System.out.println("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)
          {
             count++;
          }
        }

        System.out.println("The number of factors:"+count);
      }
     }
      catch(Exception e)
      {
        System.out.println("Enter only numbers");
      }
   }
}
```


factor.java
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;
System.out.println("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)
{
count++;
}
}
System.out.println("The number of factors:"+count);
}
input
Enter the number:
100
The number of factors:9
...Program finished with exit code 0
Press ENTER to exit console.
Search
ENG
IN
23:48
05-04-2023