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PRACTICAL 1:

```
import java.util.*;
class SwapString
{
    public static void main(String[] args)
    {
        String str1=new String();
        String str2=new String();
        Scanner input=new Scanner(System.in);
        System.out.print("Enter the String 1 : ");
        str1=input.next();
        System.out.print("Enter the String 2 : ");
        str2=input.next();
        System.out.println("Before Swapping\n-----");
    };

    System.out.println (str1+"\t"+str2);
    str1=str1+str2;
    str2=str1.substring(0,str1.length()-str2.length());
    str1=str1.substring(str2.length());
    System.out.println("-----\nAfter Swapping");
    System.out.println(str1+"\t"+str2);
    }
}
```

Output:

```
C:\Java\JAVA_practicals>java SwapString
Enter the String 1 : Hello
Enter the String 2 : World
Before Swapping
-----
Hello    World
-----
After Swapping
-----
World    Hello
```

Practical-2:

```
import java.util.*;
class Alphabet
{
    public static void main(String[] args)
    {
        String x;
        Scanner input=new Scanner(System.in);
        System.out.print("Enter the Character : ");
        x=input.next();
        int y=x.charAt(0);
        if(x.charAt(0)>='A' && x.charAt(0)<'Z')
            y++;
        else if(x.charAt(0)>='a' && x.charAt(0)<'z')
            y++;
        else if(x.charAt(0)=='Z')
            System.out.println("Next Alphabet is : Z");
        else if(x.charAt(0)=='z')
            System.out.println("Next Alphabet is : Z");
        else
            System.out.println("it is not an alphabet");
        System.out.println("Next Alphabet is : "+(char)y);
    }
}
```

Output:

```
C:\Java\JAVA_practicals>javac Alphabet.java
C:\Java\JAVA_practicals>java Alphabet
Enter the Character : P
Next Alphabet is : Q
```

Practical-3:

```
import java.util.*;
class CountVowel
{
    public static void main(String[] args)
    {
        int a_count=0,e_count=0,i_count=0,o_count=0,u_count=0;
        Scanner input=new Scanner(System.in);
        String str=new String();
        System.out.print("Enter the String : ");
        str=input.next();
        for(int i=0;i<str.length();i++)
        {
            if(str.charAt(i)=='A')
                a_count++;
            else if(str.charAt(i)=='E')
                e_count++;
            else if(str.charAt(i)=='I')
                i_count++;
            else if(str.charAt(i)=='O')
                o_count++;
            else if(str.charAt(i)=='U')
                u_count++;
            else
                continue;
        }
        System.out.println("Frequency of vowels:");
        System.out.println("a : "+a_count);
        System.out.println("e : "+e_count);
        System.out.println("i : "+i_count);
```

```
        System.out.println("o : "+o_count);  
        System.out.println("u : "+u_count);  
    }  
}
```

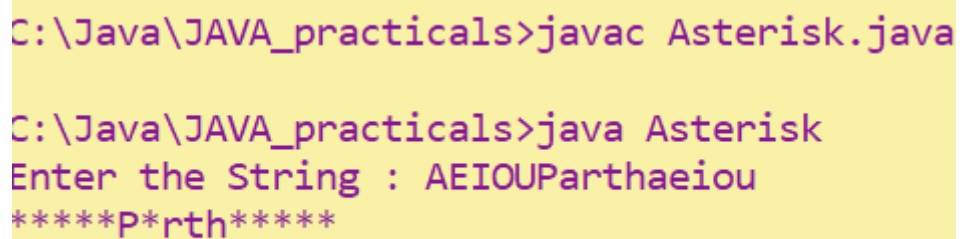
Output:

```
C:\Java\JAVA_practicals>java CountVowel  
Enter the String : AEIOUPARTHUOIEA  
Frequency of vowels:  
a : 3  
e : 2  
i : 2  
o : 2  
u : 2
```

Practical-4:

```
import java.util.*;

class Asterisk
{
    public static void main(String[] args)
    {
        String str=new String();
        Scanner input=new Scanner(System.in);
        System.out.print("Enter the String : ");
        str=input.next();
        for(int i=0;i<str.length();i++)
        {
            if(str.charAt(i)=='A'
||str.charAt(i)=='E'||str.charAt(i)=='I'||str.charAt(i)=='O'||str.charAt(i)=='U'||str.charAt(i)=='a'||
str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u')
                str=str.substring(0,i)+'*'+str.substring(i+1);
            }
        System.out.println(str);
    }
}
```

Output:A screenshot of a Windows command prompt window with a yellow background. It shows the compilation and execution of a Java program. The first command is 'javac Asterisk.java' and the second is 'java Asterisk'. The program prompts 'Enter the String : ' and the user enters 'AEIOUParthaeiou'. The output is '*****P*rth*****', where the vowels in the input string have been replaced by asterisks.

```
C:\Java\JAVA_practicals>javac Asterisk.java

C:\Java\JAVA_practicals>java Asterisk
Enter the String : AEIOUParthaeiou
*****P*rth*****
```

Practical-5:

class Calculator

```
{  
    private int num,f,rev;  
    Calculator(int n)  
    {  
        num=n;  
        f=0;  
        rev=0;  
    }  
    int prime()  
    {  
        int count=0;  
        f=num;  
        for(int i=2;i<f/2;i++)  
        {  
            if(f%i==0)  
            {count++;  
             break;  
            }  
        }  
        if(count==0)  
            return 1;  
        else  
            return 0;  
    }  
    int reverse()  
    {  
        int f=num;  
        while(f>0)
```

```
        {rev=(rev*10)+f%10;
        f=f/10;}
        return rev;
    }
    void display()
    {
        if(prime()==1)
        {
            if(num == rev)
                System.out.println("The number "+num+" is prime
palindrome");
            else
                System.out.println("The number "+num+" is not prime
palindrome");
        }
        else
            System.out.println("The number "+num+" is not prime
palindrome");
    }
}
class CalculatorExecution
{
    public static void main(String[] args)
    {
        Calculator cal=new Calculator(23);
        System.out.println(cal.reverse());
        cal.display();
    }
}
```


Output:

```
C:\Java\JAVA_practicals>javac CalculatorExecution.java

C:\Java\JAVA_practicals>java CalculatorExecution
32
The number 23 is not prime palindrome
```

Practical-6:

```
import java.util.*;

class StringNOVowel
{
    public static void main(String[] args)
    {
        String str=new String();
        Scanner input=new Scanner(System.in);
        System.out.print("Enter the String : ");
        str=input.next();
        for(int i=0;i<str.length();i++)
        {
            if(str.charAt(i)=='A'
||str.charAt(i)=='E'||str.charAt(i)=='I'||str.charAt(i)=='O'||str.charAt(i)=='U'||str.charAt(i)=='a'||
str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u')
                str=str.substring(0,i)+str.substring(i+1);
        }
        System.out.println(str);
    }
}
```

Output:

```
C:\Java\JAVA_practicals>javac StringNoVowel.java

C:\Java\JAVA_practicals>java StringNOVowel
Enter the String : Parth
Prth
```

Practical-7:

```
class hcf lcm
{
    private int a;
    private int b;
    hcf lcm(int x,int y)
    {
        a=x;
        b=y;
    }
    void calculate()
    {
        int hcf=1;
        for(int i=2;i<=a && i<=b;i++)
        {
            if (a%i==0 && b%i==0)
            {
                hcf=i;
            }
        }
        int lcm=(a*b)/hcf;
        System.out.println("HCF of "+a+" and "+b+" is : "+hcf);
        System.out.println("LCM of "+a+" and "+b+" is : "+lcm);
    }
}

class HL
{
    public static void main(String[] args)
    {
        hcf lcm obj=new hcf lcm(2,200);
    }
}
```

```
        obj.calculate();  
    }  
}
```

Output:

```
C:\Java\JAVA_practicals>javac H1.java  
  
C:\Java\JAVA_practicals>java HL  
HCF of 2 and 200 is : 2  
LCM of 2 and 200 is : 200
```