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import java.io.*;
import java.util.Scanner;
import java.lang.String;
import java.lang.Math;

class Test
{
    String str;
    int num;

    public void read() throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.println("\n\nEnter the string: ");
        str=br.readLine();
        System.out.println("\n\nEnter a number: ");
        num=Integer.parseInt(br.readLine());

    }

    public void convertAlternateLetterCapital()
    {
        final char[] chars = str.toCharArray();

        final int len = chars.length;

        char c;

        for (int i = 0; i < len; i++) {
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        c = chars[i];

        chars[i] = i % 2 == 0 ? Character.toLowerCase(c): Character.toUpperCase(c);
    }

    jumTF.setText(new String(chars));

}

public void powerDigit()
{
    int n,r,s;
    n=num;
    r=0;
    s=0;
    while(n>0)
    {
        r=n%10;
        s=s+(r*r);
        n=n/10;
    }
    System.out.println("The sum of the square of the digit is: "+s);
}

public void reverseString()
{
    String string=str;
    String reverse = new StringBuffer(string).reverse().toString();
    System.out.println("\n\nReverse String is: "+reverse);
}

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}

public class Test1
{
    public static void main(String [] args)throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);

        byte res;
        boolean ch=true;
        Test obj=new Test();
        while(ch)
        {
            System.out.println("\n\nWelcome to the program\n\n1 for read data\n\n2 for convert string in
            alternative letter capital\n\n3 for power of a digit\n\n4 for reverse of a given string\n\n5 for exit:");
            res=Byte.parseByte(br.readLine());
            switch(res)
            {
                case 1:
                    obj.read();
                    break;
                case 2:
                    obj.convertAlternateLetterCapital();
                    break;
                case 3:
                    obj.powerDigit();

                    break;
```

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case 4:

    obj.reverseString();

    break;
case 5:ch=false;

    break;
}

}

System.out.println("\n\nThank you");

}

}

```

OUTPUT:

```

E:\4BCA\Java\Lab Program\Test1.java *
File Edit Tools Project Debugger Language Level Help
New Open Save Close Cut Copy Paste Undo Redo Find Compile Reset Run Test Javadoc Code Coverage
Test1.java
Interactions Console Compiler Output
Welcome to DrJava. Working directory is E:\4BCA\Java\Lab Program
> java Test1

Welcome to the program

1 for read data
2 for convert string in alternative letter capital
3 for power of a digit
4 for reverse of a given string
5 for exit:
1

Enter the string:
Hello

Enter a number:
2222

Welcome to the program

1 for read data
2 for convert string in alternative letter capital
3 for power of a digit
4 for reverse of a given string
5 for exit:
1

Braket matches: { 84.1
Editing E:\4BCA\Java\Lab Program\Test1.java *
Type here to search
4BCA 12:22 PM 10-Jan-18

```

