Lösung **DeutMliw.om** Blatt 8

```
MODULE DeutMliw;

        (**************************
         * Allgemeine Informatik I *
         *      WS 2001/2002       *
         *     Uebungsblatt 8      *
         *     Beispielloesung     *
         **************************)

IMPORT Read, Write, Streams;

VAR ch : CHAR;

BEGIN
Read.Char(ch);
WHILE ~Streams.stdin.eof DO
        CASE ch OF
           | "a" .. "z" : ch:=CHR(ORD("z")-(ORD(ch)-ORD("a")));
           | "A" .. "Z" : ch:=CHR(ORD("Z")-(ORD(ch)-ORD("A")));
           | "0" .. "9" : ch:=CHR(ORD("9")-(ORD(ch)-ORD("0")));
          ELSE
            (* nothing is changed here *)
          END;
        Write.Char(ch);
        Read.Char(ch);
        END;
END DeutMliw.
```

Lösung **DeutHeli.om** Blatt 8

```
MODULE DeutHeli;

        (**************************
         * Allgemeine Informatik I *
         *      WS 2001/2002       *
         *     Uebungsblatt 8      *
         *     Beispielloesung     *
         **************************)

IMPORT Read, Write, Streams;

VAR ch : CHAR;

BEGIN
Read.Char(ch);
WHILE ~Streams.stdin.eof DO
        CASE ch OF
           | "a" .. "z" : ch:=CHR(ORD("z")-(ORD(ch)-ORD("a")));
           | "A" .. "Z" : ch:=CHR(ORD("Z")-(ORD(ch)-ORD("A")));
           | "0" .. "9" : ch:=CHR(ORD("9")-(ORD(ch)-ORD("0")));
          ELSE
            (* nothing is changed here *)
          END;
        CASE ch OF
           | "a", "e", "i", "o", "u" : ch:=CHR(ORD("A")+(ORD(ch)-ORD("a")));
           | "B", "C", "D", "F", "G", "H", "J", "K",
             "L", "M", "N", "P", "Q", "R", "S", "T",
             "V", "W", "X", "Y", "Z" : ch:=CHR(ORD("a")+(ORD(ch)-ORD("A")));
          ELSE
            (* nothing is changed here *)
          END;
        Write.Char(ch);
        Read.Char(ch);
        END;
END DeutHeli.
```

Lösung **HeliDeut.om** Blatt 8

```
MODULE HeliDeut;

        (**************************
         * Allgemeine Informatik I *
         *      WS 2001/2002       *
         *     Uebungsblatt 8      *
         *     Beispielloesung     *
         **************************)

IMPORT Read, Write, Streams;

VAR ch : CHAR;

BEGIN
Read.Char(ch);
WHILE ~Streams.stdin.eof DO
          (* Make all capital letters small *)
        IF ((ch >= "A") & (ch <= "Z")) THEN
                ch:=CHR(ORD("a")+(ORD(ch)-ORD("A")));
                END;
          (* Now decrypt the letters *)
        CASE ch OF
          | "a" .. "z" : ch:=CHR(ORD("z")-(ORD(ch)-ORD("a")));
          | "0" .. "9" : ch:=CHR(ORD("9")-(ORD(ch)-ORD("0")));
          ELSE
            (* nothing is changed here *)
          END;
        Write.Char(ch);
        Read.Char(ch);
        END;
END HeliDeut.
```