

zad 1

wynik działania i podgląd debugera

```
C:\MIKRO\ZAD1>zad1
```

```
Piotr Heinzelman
```

```
Wydz. Elektryczny, kierunek "Informatyka Stosowana"
```

```
C:\MIKRO\ZAD1>debug zad1.exe
```

```
-u
```

```
12D8:0000 B8D312      MOV     AX,12D3
12D8:0003 50          PUSH    AX
12D8:0004 1F          POP     DS
12D8:0005 8D160000      LEA     DX,[0000]
12D8:0009 B409          MOV     AH,09
12D8:000B CD21          INT     21
12D8:000D 8D161700      LEA     DX,[0017]
12D8:0011 CD21          INT     21
12D8:0013 B44C          MOV     AH,4C
12D8:0015 B000          MOV     AL,00
12D8:0017 CD21          INT     21
12D8:0019 D380FB02      ROL     WORD PTR [BX+SI+02FB],CL
12D8:001D 7316          JNB     0035
12D8:001F 2E          CS:
12D8:0020 8ABF7101      MOV     BH,[BX+0171]
```

```
12A3:0270 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
-d
12A3:0280 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:0290 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02A0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02B0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02C0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02D0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02E0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 21 21  STACK!!!STACK!!!
12A3:02F0 53 54 41 43 4B 21 21 21-53 54 41 43 4B 21 00 00  STACK!!!STACK!..
```

```
-d
```

```
12A3:0300 0A 0D 0A 0D 50 69 6F 74-72 20 48 65 69 6E 7A 65  ....Piotr Heinze
12A3:0310 6C 6D 61 6E 0A 0D 24 57-79 64 7A 2E 20 45 6C 65  lman..$Wydz. Ele
12A3:0320 6B 74 72 79 63 7A 6E 79-2C 20 6B 69 65 72 75 6E  ktryczny, kierun
12A3:0330 65 6B 20 22 49 6E 66 6F-72 6D 61 74 79 6B 61 20  ek "Informatyka
12A3:0340 53 74 6F 73 6F 77 61 6E-61 22 0A 0D 24 0D 0A 24  Stosowana"..$..$
12A3:0350 B8 D3 12 50 1F 8D 16 00-00 B4 09 CD 21 8D 16 17  ...P.....!...
12A3:0360 00 CD 21 B4 4C B0 00 CD-21 D3 80 FB 02 73 16 2E  ..!.L...!....s..
12A3:0370 8A BF 71 01 AC 8A D8 56-8B F7 2B F3 1E 06 1F F3  ..q....U...+.....
```

```
-r
```

```
AX=0000 BX=0000 CX=0269 DX=0000 SP=0200 BP=0000 SI=0000 DI=0000
DS=12A3 ES=12A3 SS=12B3 CS=12D8 IP=0000  NV UP EI PL NZ NA PO NC
12D8:0000 B8D312      MOV     AX,12D3
```


zad 2

wynik działania i podgląd debugera

```
C:\MIKRO\ZAD1>zad2
```

```
Piotr Heinzelman
```

```
Wydz. Elektryczny, kierunek "Informatyka Stosowana"
```

```
23:49:20 23-12-2023
```

```
C:\MIKRO\ZAD1>zad2
```

```
Piotr Heinzelman
```

```
Wydz. Elektryczny, kierunek "Informatyka Stosowana"
```

```
23:49:23 23-12-2023
```

```
C:\MIKRO\ZAD1>
```

```
C:\MIKRO\ZAD1>debug zad2.exe
```

```
-r
```

```
AX=0000 BX=0000 CX=02FA DX=0000 SP=0200 BP=0000 SI=0000 DI=0000  
DS=12A3 ES=12A3 SS=12B3 CS=12DA IP=0000  NV UP EI PL NZ NA PO NC
```

```
12DA:0000 B8D312      MOV     AX,12D3
```

```
-u
```

```
12DA:0000 B8D312      MOV     AX,12D3
```

```
12DA:0003 50          PUSH    AX
```

```
12DA:0004 1F          POP     DS
```

```
12DA:0005 8D160000     LEA     DX,[0000]
```

```
12DA:0009 B409         MOV     AH,09
```

```
12DA:000B CD21         INT     21
```

```
12DA:000D 8D161700     LEA     DX,[0017]
```

```
12DA:0011 CD21         INT     21
```

```
12DA:0013 8D364D00     LEA     SI,[004D]
```

```
12DA:0017 B402         MOV     AH,02
```

```
12DA:0019 CD1A         INT     1A
```

```
12DA:001B 52          PUSH    DX
```

```
12DA:001C 51          PUSH    CX
```

```
12DA:001D 51          PUSH    CX
```

```
12DA:001E 5A          POP     DX
```

```
12DA:001F 86D6        XCHG    DL,DH
```

```
-
```

