

Solution to exercises in L#25

Solution to Exercise (1) on Slide 12

- What is the output of the following program?

```
#include "stdio.h"
int main(void)
{
    printf("%c\n%c\n", "Hello"[1], "Hello"[4]);
    return 0;
}
```

e

o

Solution to Exercise (2-1) on Slide 15

- What is the output of the following program?

```
#include "stdio.h"
void main(void)
{
    char a[13] = "Good day";
    for(int i=0; i < 13; i++)
    {
        if(i <= 8)
            printf("%c\n",a[i]);
        else
            printf("%d\n",a[i]);
    }
}
```

G
o
o
d

d
a
y

0
0
0
0

Solution to Exercise (2-2) on Slide 16

- What is the output of the following program after changing “%d” to “%c” in the second printf()?

```
#include "stdio.h"
void main(void)
{
    char a[13] = "Good day";
    for(int i=0; i < 13; i++)
    {
        if(i <= 8)
            printf("%c\n",a[i]);
        else
            printf("%d\n",a[i]);
    }
}
```



G
o
o
d

d
a
y

Solution to Exercise (2-3) on Slide 17

- What is the output of the following program after changing “%c” to “%d” in the first printf()?

```
#include "stdio.h"
void main(void)
{
    char a[13] = "Good day";
    for(int i=0; i < 13; i++)
    {
        if(i <= 8)
            printf("%d\n",a[i]);
        else
            printf("%d\n",a[i]);
    }
}
```

```
71
111
111
100
32
100
97
121
0
0
0
0
0
0
```

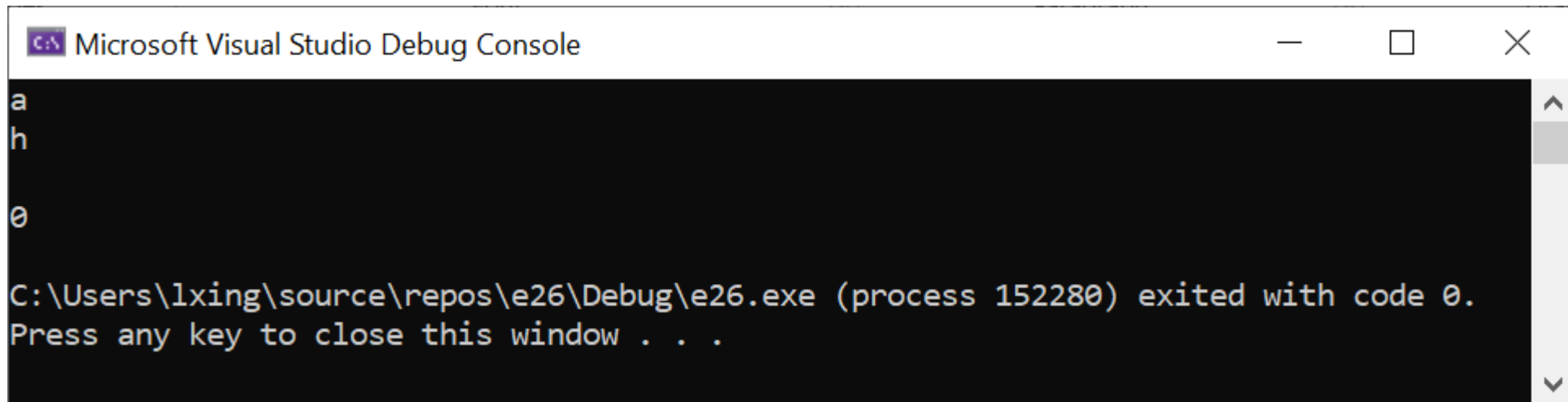
The ASCII value of each character is output!

Note: the ASCII code of ‘\0’ is 0

Review Question on Slide 18

- What is the output of the following program?

```
#include "stdio.h"
void main(void)
{
    char month[10] = "March";
    printf("%c\n%c\n", month[1], month[4]);
    printf("%c\n%d\n", month[8], month[9]);
}
```



The screenshot shows the Microsoft Visual Studio Debug Console window. The title bar reads "C:\ Microsoft Visual Studio Debug Console". The console output is as follows:

```
a
h
0

C:\Users\lxing\source\repos\e26\Debug\e26.exe (process 152280) exited with code 0.
Press any key to close this window . . .
```