Computer Applications I
SUR 224

Benha University

Surveying Engineering Department

Faculty of Engineering
(at Shoubra)

Sheet 4

Problem 1: *More Patterns*

Write three full program to print each of the following patterns using only one '*' and one ' ' per program.

a)
```
*****
*   *
* * *
*   *
*****
```

b)
```
*   *
 * *
  *
 * *
*   *
```

c)
```
  *
 ***
*****
 ***
  *
```

Problem 2: *GPA*

Write a program that reads a character grade (A, B, C, D, or F) and prints the integer GPA (4, 3, 2, 1, and 0 respectively).