



UNITED INTERNATIONAL UNIVERSITY
Department of Computer Science and Engineering (CSE)

Course Title: Introduction to Computer Systems

Course Code: CSE-1110

Class Test – 02 (set - A)

Total Marks: 15

Time: 30 min

1. Write a program(switch statement) that takes a single character and check if it is a vowel or consonant. If it is vowel in uppercase then it prints @ in place of that vowel, and if it is vowel in lowercase then it prints #. On the other hand, if it is consonant in uppercase then print \$ and for lowercase print &. 10

Input	Output
A	@
i	#
M	\$
x	&

2. Write a program that asks the user to input their weight in pounds and height in inches, and calculates their BMI using the following formula: 5
- $$\text{BMI} = (\text{weight} / (\text{height} * \text{height})) * 703$$
- After calculating the BMI, use a conditional statement to print out the user's BMI category based on the following criteria:
- If the BMI is less than 18.5, print "underweight"
- If the BMI is between 18.5 and 24.9, print "normal weight"
- If the BMI is between 25.0 and 29.9, print "overweight"
- If the BMI is 30.0 or higher, print "obese"