

Business and Computer University College

CSI 211 Programming 1
Tutorial

Sheet: 6

1. Write a function that determines whether a number is prime or not. Use this function to find all prime numbers between 2 and 1000.
2. Write a program that uses a function that takes two integers as arguments and returns the greatest common divisor (GCD) of these numbers. Use this function to find the GCD of two numbers entered by the user.
3. Write a program that uses four functions:
 - a- void square(int x) to draw a square of side x.
 - b- void triangle(int x) to draw a triangle of side x.
 - c- void rectangle(int x, int y) to draw an x by y rectangle.
 - d- void parm(int x, int y) to draw an x by y parm.
4. Write a function that calculates the cube of an integer. Use it to calculate the sum: cube (1) + cube (2) + ...+ cube (20).
5. Write a program that uses a function that takes the time as three arguments: hour/minute/second. The function should return the total number of seconds in that time.
6. Write a function that checks for an integer if it is prime or not. The function should return true if the number is prime and false otherwise.