**TUTORIAL 1**

**Question 1**

Write a C program that accomplish each of the following:

1. Prompt the user to enter an integer and store the value entered in variable X
2. Prompt the user to enter an integer and if the value is not equal to 7, print “The variable number is not equal to 7.”
3. Print the message “This is a C program.” on one line.
4. Print the message “This is a C program.” with each word on a separate line.

**Question 2**

Identify and correct the errors in each of the following statements

1. scanf( “ %d ”, %value );
2. a + b + c = sum;
3. if (number >= largest);

largest==number;

1. \\ program to determine the largest of three integers
2. printf ( “Remainder of %d divided by %d is \n ”, x, y, x%y );

**Question 3**

Write a program that asks the user to enter 2 numbers, obtains them from the user and prints their sum, product, difference and remainder.

**Question 4**

Write a program that reads an integer and prints out whether it’s odd or even.

[Hint: Use the remainder operator]

**Question 5**

Write a program that inputs one five-digit number, separates the number into its individual digits and prints the digits separated from one another by three spaces. For example, if the user types in 42139, the program should print

4 2 1 3 9

**Question 6**

Write a program that asks the user to enter his/her weight in kg and height in meters and then calculates the body mass index (BMI) of the user. The formula to calculate BMI is as shown below:

The program should also output the BMI range of the person based on the table below:

|  |  |
| --- | --- |
| BMI values |  |
| Less than 18.5 | Underweight |
| Between 18.5 and 24.9 | Normal |
| Between 25 and 29.9 | Overweight |
| 30 or greater | Obese |

**Question 7**

Write a program that asks the user to enter the total time elapsed, in seconds, since an event and converts the time to hours, minutes and seconds. The time should be displayed as hours: minutes: seconds.

[Hint: Use the remainder operator]