LECTURE 1 EXEERICISES

PRINTING

1. Print the following script exactly the way it is written. Do not change any punctuation or spacing.

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As Frieza, the powerful villain from Dragon Ball Z, crosses paths with Goku, he couldn't resist a mischievous jest. With a sly grin, Frieza quips, "Goku, do you know why I never become a chef? Because I can't handle the heat! Unlike you Saiyans, I prefer my foes well-done, not medium-rare!" Frieza chuckles wickedly, reveling in his own dark humor, as Goku laughs along, appreciating the lighthearted banter between former adversaries.

INPUT OUTPUT AND BASIC OPERATIONS

1. Write a program that takes the radius of a circle from the user and prints the area

and circumference of the circle.

2. Write a program that will take the length and width of a rectangle from the user and

prints the area and perimeter of the rectangle.

3. Write a program that will take the height and base of triangle from the user and

prints the area of the triangle.

4. Write a program that takes the height of the user in meter and converts it to feet. (1

inch = 2.54 cm, 1 foot = 12 inch).

5. Write a program that takes a temperature input in Fahrenheit and displays the

temperature in Celsius and in Kelvin. Use the conversion formulae 5(F − 32) = 9C

and C = K − 273.15.

6. Write a program that converts the number of days into month and years. For

example, if the user inputs 813 days, the program prints: 2 years 2 months 23 days.

(don’t worry about leap year and you can calculate using 1 month = 30 days)

7. Write a program that takes the number of hours as input and displays the

equivalent number of weeks, days, and hours. For example, if the user inputs 4000

hours, the program displays 23 weeks, 5 days and 16 hours.

8. Write a program that swaps (exchanges) the values of two variables.

9. Write a program that swaps the values of two variables without using a 3rd variable.

10. Write a program that takes a 3-digit positive integer from the user and then prints

the reversed number. For example, if the user enters 289, the program prints 982.

11. Take an integer from the user and print the last digit of that number. For example, if

the user enters 10773, the program prints 3.

12. Write a program that takes a decimal number from the user and then prints the

integer part and the decimal part separately. For example, if the user enters 2.718,

the program prints: Integer part = 2 and decimal part = .718.