1. The command shown below will produce what output?

fprintf('The value of pi = %4.2f',pi)

* + The value of pi = 3.14 Clearly circle only one answer.
  + 3.14
  + The value of pi = 3.1416
  + The value of 3.1416 = %4.2f
  + Invalid syntax

1. The command shown below will produce what output?

fprintf('pi = 22/7= %4.2f',pi)

* + 3.14 = 3.1416 = 3.14 Clearly circle only one answer.
  + 3.14
  + pi = 22/7 = 3.14
  + pi= 3.1416 = 3.14
  + Invalid syntax

1. The command shown below will produce what output?

x= 20/5;

fprintf('20/5 = %4.2f',x)

* + 4 = 4.00 Clearly circle only one answer.
  + 20/5 = 4
  + 20/5 = 4.00
  + 4 = 20/5
  + Invalid syntax

1. In order to print formatted integers with the following format,

998 for i=998:1001

999 fprintf(.)

1000 end

1001

Which fprintf statement should be used in the above code (on the right hand side)?

* + fprintf('%d\n', i) Clearly circle only one answer.
  + fprintf('%5d\n', i)
  + fprintf('%05d', i)
  + fprintf('%5.5d\n', i)
  + None of the above

1. Write a program that reads a number N from the user and print the shown tables.

n n2 n3 n4

1 1 1 1

2 4 8 16

3 9 27 81

4 16 64 256

5 25 125 625

1. Write a program that reads two arrays from the user; one containing the length and the other containing the width of several rectangles. The program computes the area of these rectangles and shows the results in a tabular format aligned left.

Num Length Width Area

1 5 4 20

2 7 5 35

3 10 4 40

1. Write a program that reads an array of temperature values in Celsius and compute the corresponding temperatures in Fahrenheit and Kelvin. The program shows the results in a tabular format aligned left.



Num Cel Fah Kelvin

1 23.00 73.40 500.45

2 37.00 98.60 514.45

3 40.00 104.00 517.45

4 15.00 59.00 492.45

1. Write a program that reads an angle A in degrees from the user, computes the sin values of –A to +A step (0.1) and plot the results using the MATLAB function plot.

Store the generated angles and sin values in a tabular form in a file.

1. Write a program that reads from the user the following:
2. Max grade 2. Total number of grades 3. Grades

The program should calculate the average grade in value, percent, and letter. The program should only accept grades from zero to max grade. The program should also ask the user to continue or not and according to the user decision the program re-ask the user to enter new inputs or to stop and say Good Bye!

The input and output of the program should look like the shown example.

**Example:**

Max grade: 200

Total number of grades: 4

Grade 1:200

Grade 2:150

Grade 3:250

Invalid Grade! Re-enter grade between 0 and Max

Grade 3:100

Grade 4:100

The average grade is D = 137.5 = % 69

Do you want to continue (y/n):y

Max grade: 120

Total number of grades: 3

Grade 1:200

Invalid Grade! Re-enter grade between 0 and Max

Grade 1:100

Grade 2:250

Invalid Grade! Re-enter grade between 0 and Max

Grade 2:110

Grade 3:115

The average grade is A = 108.3 = % 90

Do you want to continue (y/n):n

Good Bye!