

Assignment 1:

(1) Write a program that take two integers from the user and print the results of this equation:

$$\text{Result} = ((\text{num1} + \text{num2}) * 3) - 10$$

(2) Write a program that print your name and your grade in a new line.

(3) Write a program for converting temperature from degrees Celsius to degrees Fahrenheit, given the formula:

$$F = C \times \frac{9}{5} + 32$$

(4) Write a program that reads the radius of a circle and calculates the area and circumference then prints the results.

(5) Write a program to print the ASCII value of a character input by the user.

(6) Write a program that print the relation between two integer number if those numbers are equal, not equal and which one contain the higher value.

(7) Write a program that takes three integers, and prints out the smallest number.

(8) Write a program that reads a positive integer and checks if it is a perfect square.

(9) Write a program that reads a student grade percentage and prints "Excellent" if his grade is greater than or equal 85, "Very Good" for 75 or greater; "Good" for 65, "Pass" for 50, "Fail" for less than 50.

(10) Write a program to make a simple calculator using switch-case. The calculator takes the operation (+ or – or * or /) and takes the two input arguments and print the results.

(11) Print sum of first 100 integers. (With data validation)

(12) Write a program that reads a positive integer and computes the factorial.

(13) Write a program that reads a positive integer and checks if it is a prime.

(14) Write a program to display English alphabets from A to Z.

(15) Write a program to calculate the power of a number. The number and its power are input from user.

(16) Write a program to reverse a number.

(17) Write a program to count number of digits in a decimal number.

(18) Write a program to display half pyramid using stars pattern.

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* * *  
* * * *  
* * * * *
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(19) Write a program to display inverted half pyramid using stars pattern.

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* * * *  
* * *  
* *  
*
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(20) Write a program to display a full pyramid using stars pattern.

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  *
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*****
*****
*****
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(21) Write a program to display cross or X-shape using stars pattern.

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 *      *
 *      *
  *      *
   *      *
   *      *
   *      *
   *      *
  *      *
 *      *
 *      *
  *      *
```

Thanks and Good Luck

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