PowerShell Sample Exams.

A group

a) Create a PowerShell script which generates a Fibonacci serie (1,1,2,3,5,8,..) List out the first N (parameter) element! If there is no parameter, read the value from the keyboard!
b) Write a script which gets a decimal number and gives back its binary format! E.g. $9_{10} = 1001_2$
c) Write a script which writes out the multiplication table till 10! 1*1, 1*2,…. 10*10
d) Implement a script which gets names in a file (filename as parameter, full name per line) and list the first names which are longer than a pre-defined value (parameter)!

B group

a) Write a PowerShell script which calculates the values of ax3+bx2+cx+d polinom between N and M (only at integer values)! A,b,c and d should be read from keyboard!
b) Implement a PowerShell program which gets a roman number and gives back its decimal value! E.g. XI = 11
c) Create a script which counts how much are the average length of the words in a file (filename in parameter)
d) Implement a script which gets names and phone numbers in a file (filename as parameter, last name, a space and the phone number per line) and copy that phone numbers which belong to a pre-defined last name (parameter) into the last.txt file!

C group

a) Create a PowerShell script which writes out the odd numbers between N and M (parameters)! Check whether N is smaller than M or not – if not, change their values!
b) Write a script which gets a file (parameter filename) and in each line there are 4 numbers: 3 coordinates of a point (3D) and a radiant. Decide line by line which points are inside a sphere!
c) Write a script which writes out a file (filename as parameter) content reverse. First line first word to last line last word…
d) Implement a script which gets words a file (filename as parameter) and copy that words which are symmetric (e.g. level, Hannah, madam etc.) same.txt!

Finish your work and logout from your computer!