***Day2 Control flow , Arrays***

*Do the following exercises*

1. Write a program to print all command line arguments
2. *.*

*Write a program, which prints out an employee’s designation according to the salary. Declare an int variable salary, initialize with different values.*

*(i.e. Salary of a manager is in the range 25000 - 40000*

*Salary of an accountant is in the range 15000 - 25000*

*Salary of a clerk is lower than 15000)*

If the salary is 30000, then output should be

The employee is an accountant.

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| **Hint:** use if with relational and logical AND operators |

*Write a program to display marks obtained by a student if his grade is given*

*(The rule is*

*If grade = A , marks obtained will be above 85*

*If grade = B , marks obtained will be 60 -- 85*

*If grade = C, marks obtained will be 40 – 60*

*If grade = D, marks obtained will be 30 – 40*

*If grade = E, marks obtained will be below 30 (failed) )*

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| **Hint:** use switch-case, Declare a char variable to store grade |

1. *Write a program to print first 10 multiples of 7.*

*Write a Java application to produce the following pattern.*

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| **Hint:** use nested *for* loops. Since there are 8 lines to be printed, the first ‘for’ loop iterates an integer ‘l’ (‘l’ standing for line no) from 1 to 8. The number of stars printed on each line depends on the line number. (5 stars on line 5 for instance) Hence second loop iterates an integer n (‘n’ standing for number of stars) from 1 to ‘l’ |

1. *Write a program to find the value of one number raised to another number.*

(Given two numbers)

For eg: If numbers are 3 and 4, then output will be 3 raised to 4 is 81.

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| **Hint:** declare variables with initial values int a=3,b=4,result=1;  Write a for loop with statement result=result\*a; |

*Write a program to find the factorial of a number.*

( N ! = N \* N+1 \* N+2 \* ………………….N-1

3 ! = 3 \* 2 \* 1 == 6 )

*Write a program to find the first 15 prime numbers and print it out to the console*

1. Write a program to display 10 to 1 in descending order

*Write a Java application to produce the following pattern.*

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1. Write a program to enter values for a 2\*3 matrix and display the values in matrix format.
2. Write a program to add two 3\*4 matrices and display the sum.
3. Write a program to convert decimal to binary.
4. Write a program to interchange contents of 2 variables without using a 3rd variable.