Lab assignments

Lab1:

1. a program to print “Hello World”.
2. a program to get the character from the user and return its ASCII.

3.Same program but vice versa. (ASCII to character)

4.Program to take an integer (decimal) and display its hexadecimal equivalent.

4. program to take the number from the user.
5. Program that takes two numbers from the user and apply the following instructions (sub, sum, multiplication).

Lab2:

1.program takes the students degrees and returns their evaluation. (A.B.C.D.F)

2. A program that prints a menu of three option (New , Display , Exit) , the user can insert a character if the character is n , the program prints new. if the character is d , the program prints display. If the character is e the program prints exit. If user enters any other character the program prints invalid character.

3.program takes 5 numbers from the user and returns the sum.

4. multiplication table.
5. Program takes a number from user and says is it odd or even.

Lab 3:

1. Menu program with flag in exit and ESC to close the program.
2. Program takes numbers from user till the sum>=100 using (do while).
3. Program takes he initial value of sum from the user and numbers till sum>= 100. Using while.
4. Operations on array of integers (scanf, printf, max, min, sum). BONUS: bonus Program applies these operations to the array (search,sort) .

Lab 4:

1. program takes students degrees of 4 subjects for 3 students and print them, calculate the sum and avg for every student.
2. program takes first name and last name from the user and returns the full name.
3.program makes 2 dimensional array of strings and prints the content.
4. program takes input from user and check if it's an extended key or not.
for (esc,enter , "up","down" arrows).

Lab 5:

1. Program for struct {employee id ,name,salary,bonus,deductions} and calculate net salary.
2. Struct of array to insert data of employee id,name,salary ,bonus and deduction for all employees.

Lab 6:

1. function for factorial.
2. power for x,y x^y.
3. array of character , return its length (WITHOUT strlen).
4. swap function.
5. function to return sum of array elements.

---

lab 7:

1.swap using pointer.
2. scan data of x and y in a function .
3.scan data of an array in a function.

Lab 8:

1.make a dynamic array using malloc ,scan and print the data using the pointer. (Note: don't forget to use free(arr) at the end of the function.
2.in the main make a pointer to a struct for student (id,name), scan and print the data using the pointer.
