

Create a file on Matrix called **fquiz.txt**

Answer the following 8 questions in the above text file.

When done submit your quiz as follows:

~fardad.soleimanloo/submit fquiz<ENTER>

- 1- What is const? explain with an example.
- 2- What is the difference between passing arguments by address and pass by value?, explain with example.
- 3- Explain what why we have functions in C?
- 4- Having the following array of strings:

```
char name[????][21]={    // ???? : number of names in array is unknown
    "Fred White",
    "John Black",
    "Bill Blue"
    "Dorian Grey",
    ....
}
```

Write a function called printNames() that receives arrays like the above and prints them in separate lines. The number of names in the array is unknown.

- 5- Having the following structure:

```
struct Student{
    char name[21];
    int stno;
    double gpa;
};
```

Write a function called saveStudents, that receives an array of students, the array size and a filename. Then the function opens a file for writing using the filename and if successful, it will writes the student information in the file in separate lines and comma separated as follows, and then closes the file. The function returns true if the file is opened successfully or false if was not.

```
Fred While,123454,3.5
John Black,234566,4.0
Bill Blue, 345678,3.1
```

- 6- Having two values; a double called money and a character string called name:
double money = 123.4;
char name[21] = "Fred White";
write two printf statements to print the values above as follows:

```
*          Fred White*  <- right justified in 20 spaces
```

0000123.40 <- right justified in 10 spaces with 2 digits after decimal point and padded with zero.

- 7- First write a function that find the largest element of an integer array and returns it.
int findLargest(int array[], int arraySize);
- 8- Using the function in question 7 write a program that asks the user for number of integer values (less than 50) and then prints the largest one as follows, (red values are entered by user)
Please enter the number of integers: 3<ENTER>
Enter values:
1: 234<ENTER>
2: 345<ENTER>
3: 123<ENTER>
The largest one is 345!
Goodbye!