**Assignment task 3**

The program below displays an interactive menu that a patient can use to book an appointment with their GP, extend existing prescriptions or print test results.

1. Comment the existing code.
2. Write the code for:
   1. booking an appointment with the GP. The user should be asked to enter the GP name, date and time they want the appointment for.
   2. extending existing prescriptions. The user should be asked to enter the prescription identifier they want to extend. The prescription identifier is a number.
   3. printing test results. The user should be asked to enter the test result identifier they want to print. The test result identifier is a number.

Please note that some variables are already declared for you but you might need to more.

1. Check if the option entered by the user is valid. It should be a number between 0 and 3. Print a message if it’s not valid.
2. Extend the code to ask the user for how many days they want to extend the prescriptions for.
3. Change the code to allow the test prescription and test result identifiers to be strings.

Marking scheme:

1 mark for presenting the program in week 5.

Up to 5 marks for items a. and b.

Up to 4 marks for items c, d, e.

You need to do items a. and b. before approaching items c, d and e.

#include <stdio.h>

#include <conio.h>

int main()

{

char patientName[20];

char dob[10];

char doctorName[20];

char appointmentDate[20];

char time[5];

int option;

printf("Welcome to Camb Surgery!\n");

printf("Please use the menu below to book an appointment with a GP, extend prescriptions or view your results.\n");

printf("Please enter your name: ");

scanf("%s", patientName);

fflush(stdin); //empties the buffer. To be used before you read a string.

printf("Please enter your date of birth as dd/mm/yyyy: ");

scanf("%s", dob);

while(1) {

printf("\n\nPlease select one of the following options.\n");

printf(" 0. To exit the system.\n");

printf(" 1. To book an appointment.\n");

printf(" 2. To extend a prescription.\n");

printf(" 3. To view your test results.\n");

scanf("%d", &option);

if (option== 0)

break;

else if (option== 1) {

/\* help the patient to book an appointment by asking them to enter

the GP name, date and time.

\*/

}

/\* write the code for options 2 and 3 \*/

}

getch();

return 0;

}