



Ain shams university  
Faculty of engineering  
Computer engineering and software systems programs

Course: **Microcontrollers (CSE 316)**

**7 segment - keypad assignment**

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## Work split table

tasks	function	file	developer
detecting which key is pressed	void detectRow(unsigned int keys); void detectColumn(unsigned int keys,int row);	KeyPad.h KeyPad.c main.c	shehab
initialization & connections	void PORTB_init(void); void PORTA_init (void); void PORTE_init (void);	Port_INIT.h & Port_INIT.c	gasser
file structring & main loop	bool AnyPressed(unsigned int keys); organized functions in .h & .c files	KeyPad.h KeyPad.c main.c	Basil
block diagram & converting to 7seg output	unsigned int charTo7Seg(unsigned char character); & output	KeyPad.h KeyPad.c main.c	Hazem Hamada

## Block diagram

