



Assignment#1 (%5)

Due Date: Thursday, April 5

NO EXTENSIONS

SUBMIT FORMAT: HARD COPY with a cover page

If you have any problems about the assignment, feel free to send an email to me [akile.oday@emu.edu.tr] with the **title [ITEC114 assignment1]**.

Q1) What will be the output of the program? Without trace table will not be marked. (30 p.)

```
#include "stdafx.h"

int f1( int x)
{
    if (x<=4)
        return 8;
    else
        return x-1;
}

int f2( int x, int y)
{
    x=x+1;
    y=y+2;
    return x+y;
}

void main()
{
    int k=3,m=5,r=0;
    printf("1> %d %d \n",f1(k),f2(m,r));
    r=f1(m);
    printf("2> %d %d \n",r,f2(r,r));
    k=f1(r-2);
    printf("3> %d %d \n",k,r);
}
}
```

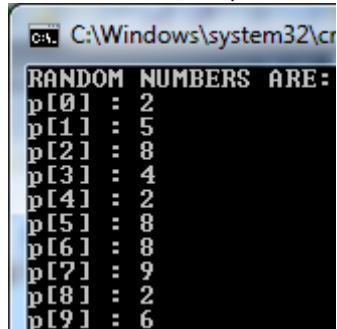
Trace Table					
main()			f1()	f2()	
k	m	r	x	x	y

Output:

Q2) Write a C program with a function called getRandom() which will generate 10 random numbers (between 0 and 9) with using an array and print them in main() as follows: (40 p.)

Function prototype: `int getRandom()`

(in function get random number return it main and keep it in the array. Call function 10 times.)



```
C:\Windows\system32\cmd
RANDOM NUMBERS ARE:
p[0] : 2
p[1] : 5
p[2] : 8
p[3] : 4
p[4] : 2
p[5] : 8
p[6] : 8
p[7] : 9
p[8] : 2
p[9] : 6
```

Q3) Write needed statements for the followings: (25 p.)

a) Write a function called menu which prints the text string "Menu choices". The function does not pass any data back, and does not accept any data as parameters.

b) Write a function prototype for the above function.

c) Write a function called total, which totals the sum of an integer array passed to it (as the first parameter) and returns the total of all the elements as an integer. Let the second parameter to the function be an integer which contains the number of elements of the array.

d) Write a function prototype for the above function.