**Subject: PRF192- PFC**

**Workshop 04**

**Part 1: Use notebook**

**Exercise 1** (1 mark) : Explain outputs:



We have \*pn = 7; \*pm = 6 We have \*p1 = A; \*p2= F.

\*pn = 6 + 2\*6 - 3\*7 = -3 (= new n) \*p1 = \*p1 + 3 = 65 + 3 = 68 (=new c1)

\*pm = \*pm - \*pn = 6 – (-3) = 9 (= new m) \*p2 = \*p2 – 5 = 70 – 5 = 65 (=new c2)

new m + new n = 9 + (-3) = 6 new c1 - new c2 = 68 – 65 = 3



We have \*p1 = 3.2; \*p2 = 5.1

\*p1 = \*p1 + 3 – 2\*(\*p2) = 3.2 + 3 – 2\*(5.1) = -4 (= new x)

\*p2 = \*p2 – 3\*(\*p1) = 5.1 – 3\*(-4) = 17.1 (=new y)

x + y = 17.1 + (-4) = 13.1

**Exercise 2** (1 mark) : What are outputs:

int n=7,m=8;

int\* p1= &n, \*p2=&m;

\*p1 +=12-m+ (\*p2);

\*p2 = m + n- 2\*(\*p1);

printf(“%d”, m+n);

What is the output?

Output is 8

int n=7,m=8;

int\* p1= &n, \*p2=&m;

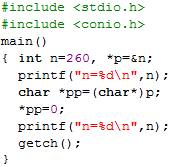
\*p1 +=12-m+ (\*p2);

\*p2 = m + n- 2\*(\*p1);

printf(“%d”, m+n);

What is the output?

Output is 8

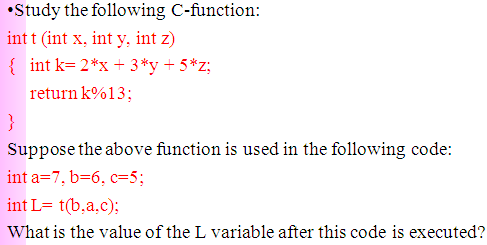


Output:

n = 260

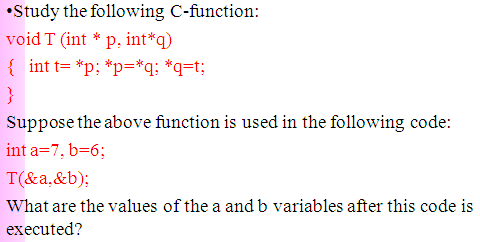
n = 256

**Exercise 3** (2 mark) : Walkthroughs



(2\*7 + 3\*6 + 5\*5) = 57. Then 57/13 = 4 with 5 remainder.

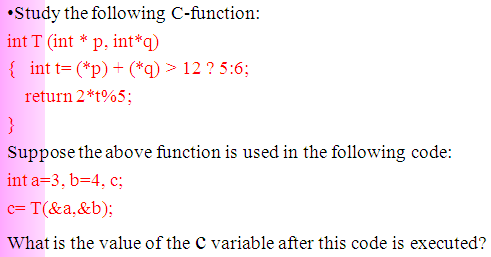
**So L = 5**



t = \*p (=6)

\*p = \*q (=7) . **So a = 7**

\*q = t (=6). **So b = 6**

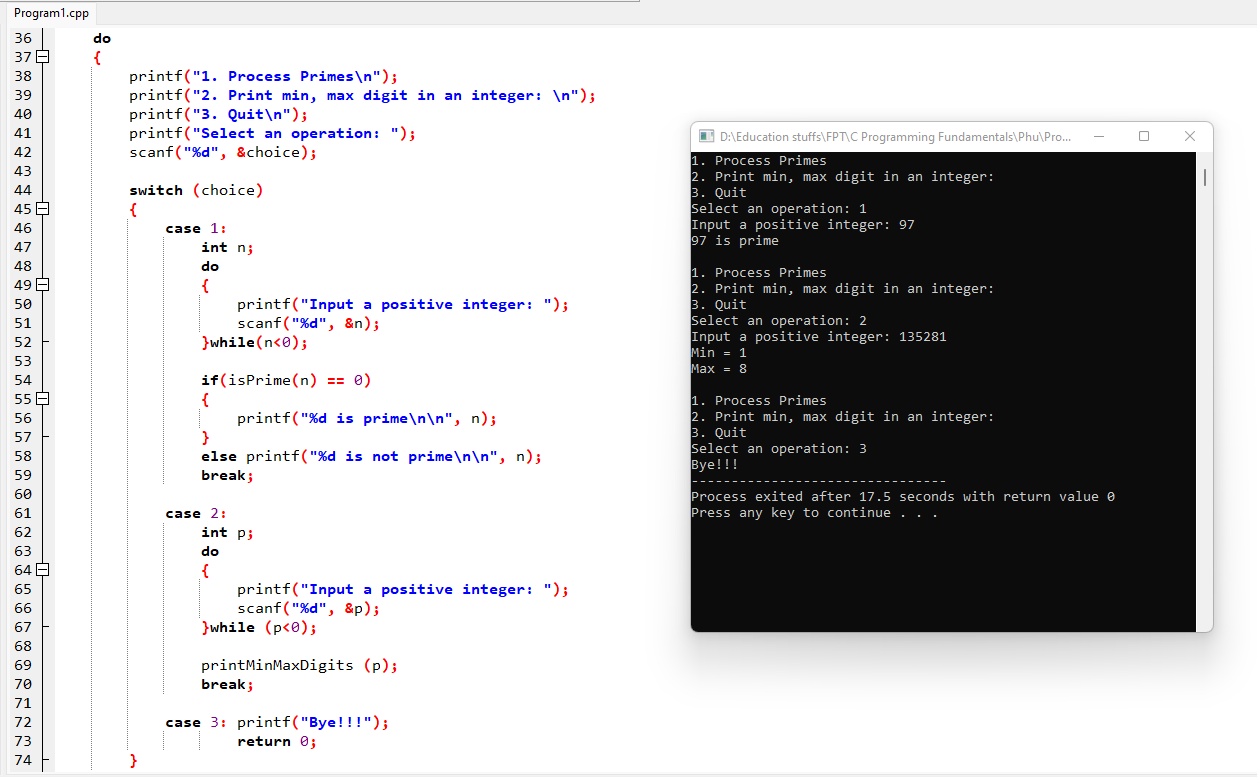


We have (\*p) + (\*q) = 3 + 4 = 7 < 12. So int t = 6.

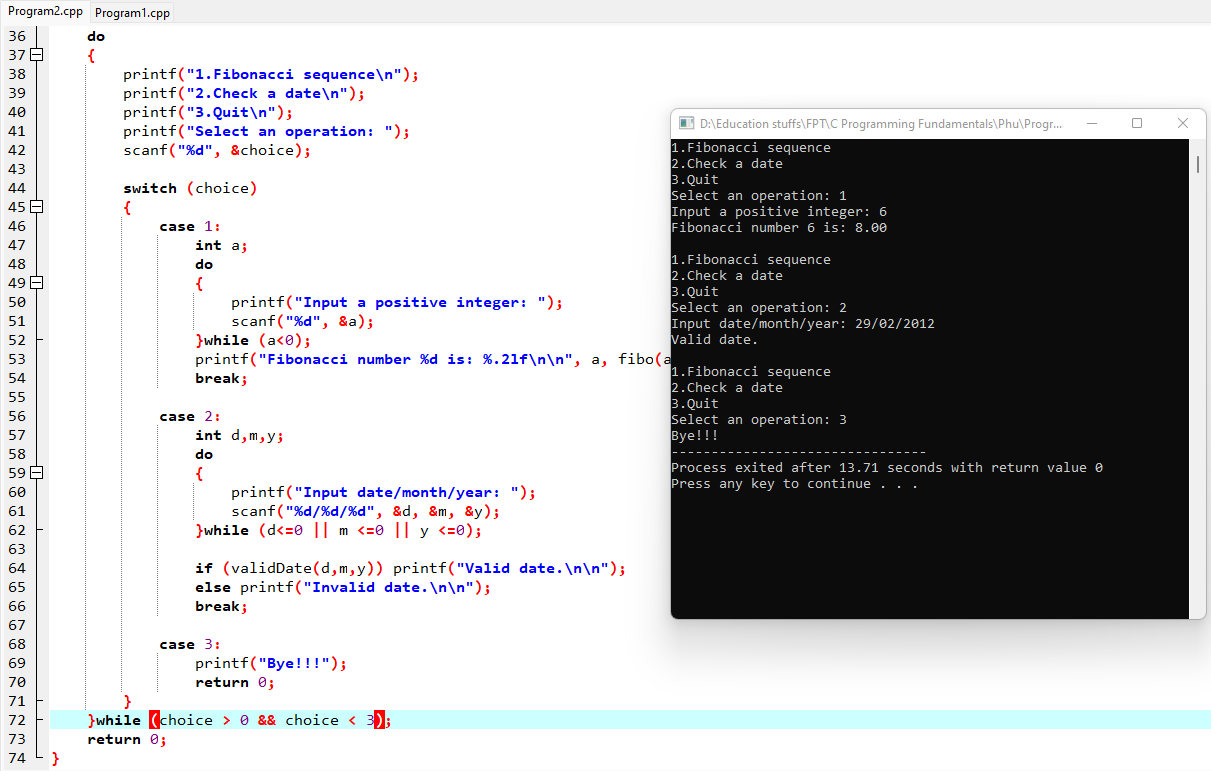
return 2\*6%5 = 2 to T. So c = 2.

**Part 2: Develop a program using simple menu**

**Program 1(3 marks):**



**Program 2(3 marks):**

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