Wednesday
09 068-297 • Week 10
MARCH

09-03-2011

M T W T F S S
. 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31 . . .

MARCH

42. Write a program to illustrate the use of pointers
in arithmetic operations.

```c
main ()
{
    int a, b, *P1, *P2, x, y, z;
    a = 12;
    b = 4;
    P1 = &a;
    P2 = &b;
    x = *P1 * *P2 - 6;
    y = 4* - *P2 / *P1 + 10;
    printf(" Address of a = %u \n", P1);
    printf(" Address of b = %u \n", P2);
    printf(" \n");
    printf(" a = %d, b = %d \n", a, b);
    printf(" x = %d, y = %d \n", x, y);
    *P2 = *P2 + 3;
    *P1 = *P2 - 5;
    z = *P1 * *P2 - 6;
    printf(" \n a = %d, b = %d, ", a, b);
    printf(" z = %d \n", z);
}
```

OUTPUT:

Address of a = 4020
Address of b = 4016
a = 12, b = 4,
x = 42, y = 9
a = 2, b = 7, z = 8