```
int main(int argc, char *argv[])
{
pgm_t opgm;
pgm_t ipgm;

int img_size = 0;
unsigned char *v_sub = NULL;
unsigned char max_val = 255;
VectorBlox_MXP_Initialize("mxp0","cma");

readPGM(&ipgm,"input_lena.pgm");            //Reading input image
img_size = (ipgm.width * ipgm.height);

opgm.width = ipgm.width;                    //Allocate buffer for output image
opgm.height = ipgm.height;
opgm.buf = (unsigned char*)vbx_shared_malloc(img_size * sizeof(unsigned
char));

//Allocate vector on scratchpad
v_sub = (unsigned char *)vbx_sp_malloc(img_size * sizeof(unsigned char ));

//Transfer input bytes from memory to scratchpad
vbx_dma_to_vector(v_sub, ipgm.buf, img_size);
vbx_set_vl(img_size);

vbx(SVBU, VSUB, v_sub, max_val, v_sub);
//Writing result from scratchpad to memory
vbx_dma_to_host(opgm.buf, v_sub, img_size);
vbx_sync();

writePGM(&opgm,"out_lena_negative.pgm");      //Writing output image

vbx_sp_free();                              //Free the allocated pointers
vbx_shared_free(ipgm.buf);
vbx_shared_free(opgm.buf);
}
```