F28HS2 Hardware Software Interface
Tutorial 4

Write assembly language programs to:

A) calculate the following expression $ax^2+bxy+cy^2$:

```
int a,b,c,x,y,z;
a=2;
b=3;
c=4;
x=5;
y=6;
z = a*x*x+b*x*y+c*y*y;
```

B) find the square root of x:

```
int s,x;
x = 27;
s = x/2;
while(s>0)
 if(s*s<=x)
   break;
 else
   s=s-1;
```

Hint: for `s/2` use right shift.