5>

```
function X = slope_int()
Y=(0.5*0)-2;
disp('the value of Y at x=0');
display(Y);
Y=(0.5*1.5)-2;
disp('the value of Y at x=1.5');
display(Y);
Y=(0.5*3)-2;
disp('the value of Y at x=3');
display(Y);
Y=(0.5*4)-2;
disp('the value of Y at x=4');
display(Y);
Y=(0.5*5)-2;
disp('the value  of Y at x=5');
display(Y);
Y=(0.5*7)-2;
disp('the value of Y at x=7');
display(Y);
Y=(0.5*9)-2;
disp('the value of Y at x=9');
display(Y);
Y=(0.5*10)-2;
disp('the value of Y at x=10');
display(Y);
end
```

ans>

the value of Y at x=0

Y =

-2

the value of Y at x=1.5

Y =

-1.250000000000000

the value of Y at x=3

Y =

-0.500000000000000

the value of Y at x=4

Y =

0

the value of Y at x=5

Y =

0.500000000000000

the value of Y at x=7

Y =

1.500000000000000

the value of Y at x=9

Y =

2.500000000000000

the value of Y at x=10

Y =

3