

Programming using C

Highlights 29:: If statement —two branch function

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>

main()
{
    float x,y;
    printf("x-value: ");
    scanf("%f",&x);
    if(x<=4)
        y = pow(x,2)+7;
    if(x>4)
        y = x+19;
    printf("Y-value = %f",y);
}
```

$$y(x) = \begin{cases} x^2 + 7 & x \leq 4 \\ x + 19 & \text{otherwise} \end{cases}$$