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/*
Berkiel Molinard
CS36
07 November 2021
Program 6
*/
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
#include <stdbool.h>
#include <stdlib.h>

void load(int *n1, int *n2, int* n3, int* n4)
{
	printf("Gimmie a number: ");
	scanf("%i", *(&n1));

	printf("Another one ");
}

        scanf("%i", *(&n2));

        printf("Do it again: ");
        scanf("%i", *(&n3));

        printf("One last number ");
        scanf("%i", *(&n4));
}

void print(int* n1, int* n2, int* n3, int* n4)
{

        printf("\n\nThe first number you entered is %i\n", *n1);
        printf("The second number you entered is %i\n", *n2);
        printf("The third number you entered is %i\n", *n3);
        printf("The fourth number you entered is %i\n", *n4);

}
```

```
void lnumber(int* n1, int* n2, int* n3, int* n4, int *max)
{

        if (*n2 > *max)
                *max = *n2;
        if (*n3 > *max)
                *max = *n3;
        if (*n4 > *max)
                *max = *n4;

}


void sort(int* n1, int* n2, int* n3, int* n4, int *number, int *i, int *n, int *j, int *a)
{

        number[0] = *n1;
        number[1] = *n2;
```

```
number[2] = *n3;
number[3] = *n4;

for (*i = 0; *i < *n; ++*i)
{
        for (*j = *i + 1; *j < *n; ++*j)
        {
                if (number[*i] < number[*j])
                {
                        *a = number[*i];
                        number[*i] = number[*j];
                number[*j] = *a;

            }

        }

    }

}

void main()
{

    int n1, n2, n3, n4;

    n1 = 0;
    int max = n1;
int i, j, a, n = 4, number[15];


load(&n1, &n2, &n3, &n4);

print(&n1, &n2, &n3, &n4);

lnumber(&n1, &n2, &n3, &n4, &max);


printf("\n\n%i is the largest number.\n", max);


sort(&n1, &n2, &n3, &n4, &number, &i, &n, &j, &a);


printf("\n\nDescending order of entered numbers: ");


for (i = 0; i < n; ++i)


        printf("\n%d", number[i]);


return 0;
```

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}
```

```
Gimmie a number: 69

Another one 420

Do it again: 42

One last number 13



The first number you entered is 69

The second number you entered is 420

The third number you entered is 42

The fourth number you entered is 13



420 is the largest number.



Descending order of entered numbers:

420

69
```

```
42

13

Process returned 4 (0x4)   execution time : 14.250 s

Press any key to continue.
```

```
/*

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Program 6

*/

#define _CRT_SECURE_NO_WARNINGS

#include <stdio.h>

#include <stdbool.h>

#include <stdlib.h>



void inemp(char *name, char *dept, float *yinc)

{
    printf("\n\nEmployee's first name? ");
    scanf("%s", name);

    printf("In what department? ");
    scanf("%s", dept);

    printf("Current income? ");
    scanf("%f", *(&yinc));

}

void perc(float *yinc, float *raisep)
{

    if (*yinc <= 70000)
    {
        *raisep = 8.6;
    }
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        else if (70000.01 < *yinc && *yinc <= 80000)

        {

                *raisep = 7.4;

        }

        else if (80000.01 < *yinc && *yinc <= 90000)

        {

                *raisep = .8;

        }

        else if (*yinc >= 90000.01)

        {

                *raisep = 4.9;

        }


}


void calc(float *rammt, float *yinc, float *raisep, float *totcinc, float *totrammt, float *totnpay,
float *npay)

{
        *rammt = *yinc * (*raisep / 100);
        *npay = *yinc + *rammt;

        *totcinc += *yinc;
        *totrammt += *rammt;
        *totnpay += *npay;

}

void main()
{

        char name[10];
        char dept[10];
        float yinc = 0;
        float raisep = 0;

        float rammt = 0;
        float npay = 0;

        float totcinc = 0;
        float totrammt = 0;
        float totnpay = 0;

        int numofemp = 0;

        printf("How many employees? ");
        scanf("%i", &numofemp);

        for (int i = 1; i <= numofemp; i++)
        {

                inemp (name, dept, &yinc);
                perc(&yinc, &raisep);
                calc(&rammt, &yinc, &raisep, &totcinc, &totrammt, &totnpay, &npay);
                printf(" %s in %s has a current income of $%0.2f and a raise of %0.2f percent.
        Their raise is of $%0.2f and their new pay amount is $%0.2f.\n", name, dept, yinc, raisep, rammt,
        npay);


        }


        printf("\n\n The total current income of everyone is $%0.2f. The total raise for everyone
        is $%0.2f. The total new pay for everyone is $%0.2f.\n\n", totcinc, totrammt, totnpay);

        return 0;


        }
```

```
How many employees? 5


Employee's first name? Mike

In what department? Accounting

Current income? 66111.54

  in Accounting has a current income of $66111.54 and a raise of 8.60 percent. Their raise is of $5685.59 and their new pay amount is $71797.13.


Employee's first name? Shohei

In what department? Marketing

Current income? 89224.17

 Shohei in Marketing has a current income of $89224.17 and a raise of 5.80 percent. Their raise is of $5175.00 and their new pay amount is $94399.17.


Employee's first name? Jared

In what department? Management
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Current income? 75123.25

  in Management has a current income of $75123.25 and a raise of 7.40 percent. Their raise is of
$5559.12 and their new pay amount is $80682.37.



Employee's first name? Anthony

In what department? Sales

Current income? 69644.44

 Anthony in Sales has a current income of $69644.44 and a raise of 8.60 percent. Their raise is of
$5989.42 and their new pay amount is $75633.86.



Employee's first name? Justin

In what department? Management

Current income? 96222.77

  in Management has a current income of $96222.77 and a raise of 4.90 percent. Their raise is of
$4714.92 and their new pay amount is $100937.69.
```
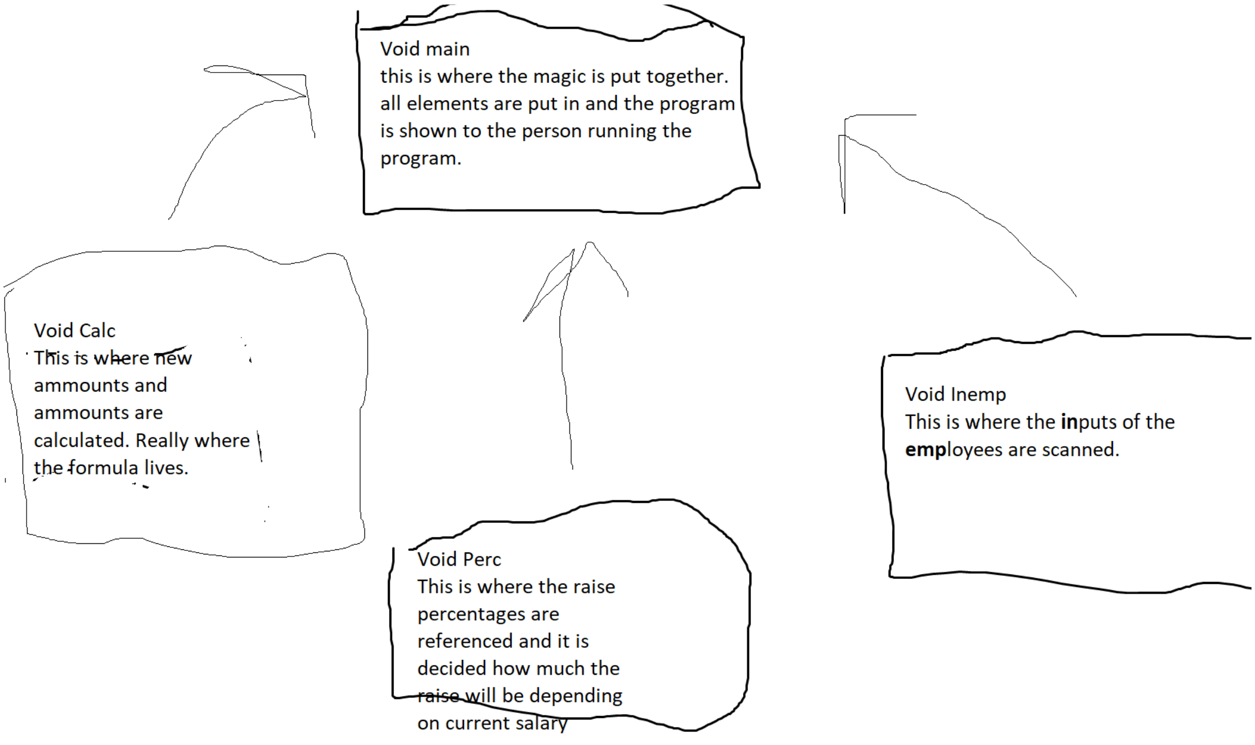

```
 The total current income of everyone is $396326.19. The total raise for everyone is $27124.05.

The total new pay for everyone is $423450.25.




Process returned 145 (0x91)   execution time : 292.160 s

Press any key to continue.
```

Chart



Void main
this is where the magic is put together. all elements are put in and the program is shown to the person running the program.

Void Calc
This is where new ammounts and ammounts are calculated. Really where the formula lives.

Void Perc
This is where the raise percentages are referenced and it is decided how much the raise will be depending on current salary

Void Inemp
This is where the **in**puts of the **emp**loyees are scanned.