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/*
Berkiel Molinard
CS36
21 November 2021
Program 7
*/
#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("\nIn what department? ");
    scanf("%s", dept);

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

}

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

    if (*yinc <= 70000)
    {

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*raisep = 8.6;
}
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;
}
}
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void calc(float *rammt, float *yinc, float *raisep, float *totcinc, float *totrammt, float *totnpay, float *npay)
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{

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

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

}
```

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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++)
    {
        // The loop is an deterministic entrance controlled loop since at the very beginning of the user input of
        // the program
        // the individual inputs the amount of people that are to be added. thus it is entrance controlled.
        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);
    }
}

```

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}
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```
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);
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return 0;
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}
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How many employees? 5

Employee's first name? Mike

In what department? Accounting

Current income? 66111.54

Mike 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

Current income? 75123.25

Jared 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

Justin 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.

```

/*
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21 November 2021
Program 8
*/

#define _CRT_SECURE_NO_WARNINGS

#include <stdio.h>
#include <stdbool.h>
#include <stdlib.h>
#include <time.h>

void intro()
{

    printf("\nWelcome to the guessing game!\n");
    printf("Guess a number from 1 to 50. You have 6 tries to guess correctly, good luck!\n");
    printf("Pssst: here's a protip, If you get it wrong, I'll throw you a bone! :) \n\n");

}

void game()
{

    int randv;
    time_t t;
    srand((unsigned)time(&t));
    randv = rand() % 50 + 1;

```

```
int uguess;

int i = 0;
for (i = 1; i <= 6; i++)
{

    printf("\nGimmie a number: ");
    scanf("%i", &uguess);

    if (randv > uguess)
    {

        printf("\nTry a bit larger.\n");

    }
    else if (randv < uguess)
    {

        printf("\nMaybe a bit smaller.\n");

    }
    else
    {

        printf("\nWell done, after %i tries you guessed correctly!\n\n", i);
        break;

    }

}
```

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    if (i == 7)
    {

        printf("\n\nMan, you're bad.....");
        printf("\nIt was %i, the number was %i\n\n", randv, randv);

    }

}

void main()
{

    int input;
    do
    {

        printf("Yet another number game\n");
        printf("\nPress 1 and then enter to play\n");
        printf("Press 0 and then enter to exit\n");
        printf("\nMake your choice: ");
        scanf("%i", &input);

        switch (input)
        {

        case 1:
            intro();
            game();
            break;

```



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case 0:
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    printf("\nSee ya, Wouldn't wanna be ya\n");
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    break;
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default:
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    printf("\nBruh\n\n");
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    break;
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}
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```
} while (input);
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```
return 0;
```

```
}
```

Yet another number game

Press 1 and then enter to play

Press 0 and then enter to exit

Make your choice: 1

Welcome to the guessing game!

Guess a number from 1 to 50. You have 6 tries to guess correctly, good luck!

Pssst: here's a protip, If you get it wrong, I'll throw you a bone! :)

Gimmie a number: 30

Try a bit larger.

Gimmie a number: 40

Maybe a bit smaller.

Gimmie a number: 42

Maybe a bit smaller.

Gimmie a number: 41

Maybe a bit smaller.

Gimmie a number: 35

Maybe a bit smaller.

Gimmie a number: 32

Well done, after 6 tries you guessed correctly!

Yet another number game

Press 1 and then enter to play

Press 0 and then enter to exit

Make your choice: 3

Bruh

Yet another number game

Press 1 and then enter to play

Press 0 and then enter to exit

Make your choice: 0

See ya, Wouldn't wanna be ya

Process returned 0 (0x0) execution time : 41.057 s

Press any key to continue.