

Name: Mark Achilles G. Flores Jr.

Assessment: Function without arguments

Year & Section: BSCS 1-4

Exercise 1: Create a function to print the Fibonacci sequence

Define a function named "printFibonacci()" that does not take any arguments. In the function, use a loop to generate and print the first 10 numbers of the Fibonacci sequence. Call the "printFibonacci()" function from the main function.

```
1 #include <stdio.h>
2
3 void printFibonacci() {
4     int seq[] = {0, 1, 0, 0, 0, 0, 0, 0, 0, 0};
5
6     for (int i=2; i<10; i++) {
7         seq[i] = seq[i-1] + seq[i-2];
8     }
9
10    for (int i=0; i<10; i++) {
11        printf("%d ", seq[i]);
12    }
13 }
14
15 int main() {
16     printFibonacci();
17
18     return 0;
19 }
```

Exercise 2: Create a function to print the multiplication table of a number

Define a function named "printMultiplicationTable()" that does not take any arguments. In the function, use a loop to generate and print the multiplication table of a number (e.g., 7) up to 10. Call the "printMultiplicationTable()" function from the main function.

```
1 #include <stdio.h>
2
3 void printMultiplicationTable() {
4     int num, i;
5
6     printf("Give me a number: ");
7     scanf("%d", &num);
8
9     printf("Multiples of %d (up to %d * 10):\n", num, num);
10    for (i=1; i<=10; i++) {
11        printf("%d\n", num * i);
12    }
13 }
14
15 int main() {
16     printMultiplicationTable();
17
18     return 0;
19 }
```

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Exercise 3: Create a function to calculate the factorial of a number

- Define a function named "calculateFactorial()" that does not take any arguments.
- In the function, ask the user to enter a number (e.g., 5) and calculate its factorial using a loop.
- Print the calculated factorial on the console.
- Call the "calculateFactorial()" function from the main function.

```
1 #include <stdio.h>
2
3 void calculateFactorial() {
4     int num, fac, i;
5
6     printf("Give me a number: ");
7     scanf("%d", &num);
8
9     fac = num;
10    for (i=1; i<num; i++) {
11        fac *= i;
12    }
13    printf("The factorial of %d is %d", num, fac);
14 }
15
16 int main() {
17     calculateFactorial();
18
19     return 0;
20 }
```

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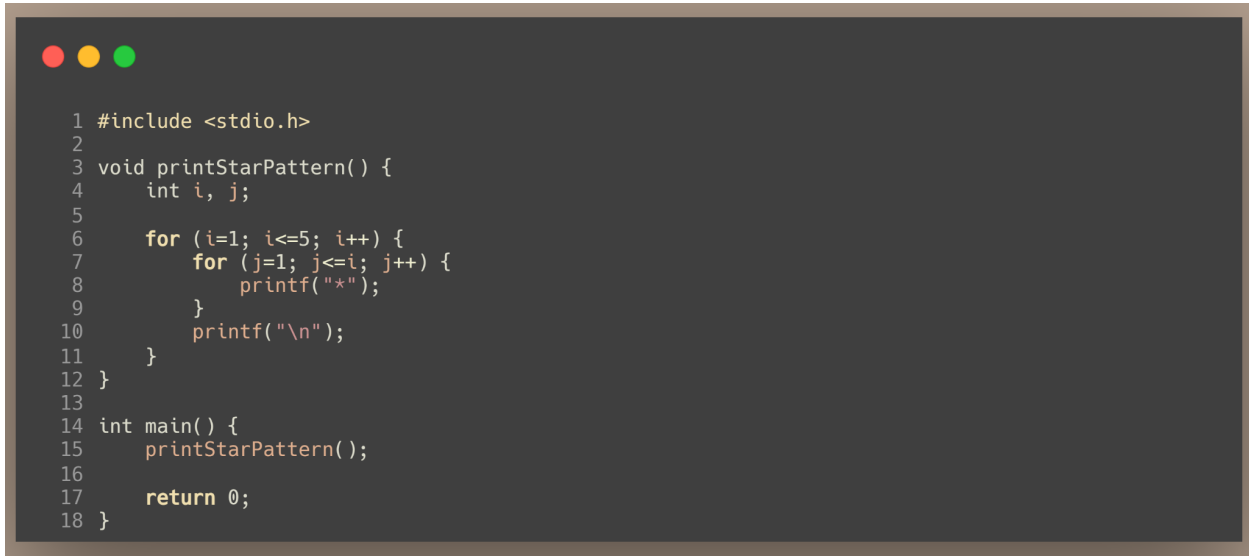
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Exercise 4: Create a function to print a pattern of stars

- Define a function named "printStarPattern()" that does not take any arguments.
- In the function, use nested loops to print a pattern of stars as shown below:

```
*  
**  
***  
****  
*****
```

- Call the "printStarPattern()" function from the main function.



```
1 #include <stdio.h>  
2  
3 void printStarPattern() {  
4     int i, j;  
5  
6     for (i=1; i<=5; i++) {  
7         for (j=1; j<=i; j++) {  
8             printf("*");  
9         }  
10        printf("\n");  
11    }  
12 }  
13  
14 int main() {  
15     printStarPattern();  
16  
17     return 0;  
18 }
```

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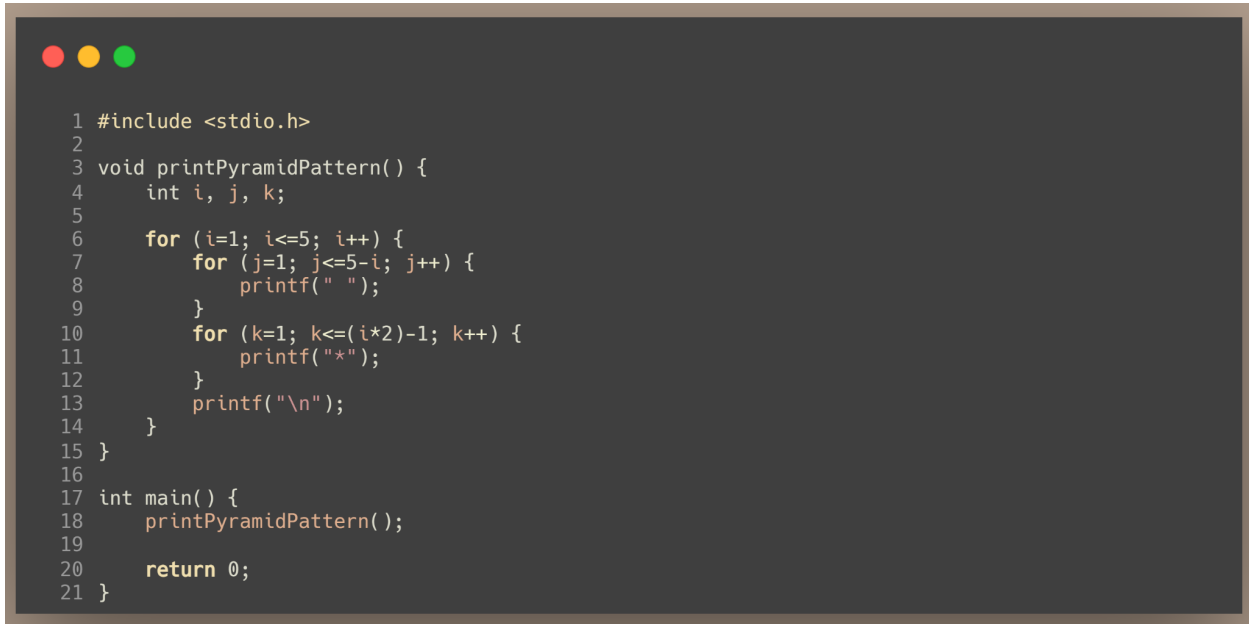
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Exercise 5: Create a function to print a pyramid pattern

Define a function named "printPyramidPattern()" that does not take any arguments. In the function, use nested loops to print a pyramid pattern of stars as shown below:

```
*  
***  
*****  
*****  
*****
```

- Call the "printPyramidPattern()" function from the main function.



```
1 #include <stdio.h>  
2  
3 void printPyramidPattern() {  
4     int i, j, k;  
5  
6     for (i=1; i<=5; i++) {  
7         for (j=1; j<=5-i; j++) {  
8             printf(" ");  
9         }  
10        for (k=1; k<=(i*2)-1; k++) {  
11            printf("*");  
12        }  
13        printf("\n");  
14    }  
15 }  
16  
17 int main() {  
18     printPyramidPattern();  
19  
20     return 0;  
21 }
```