






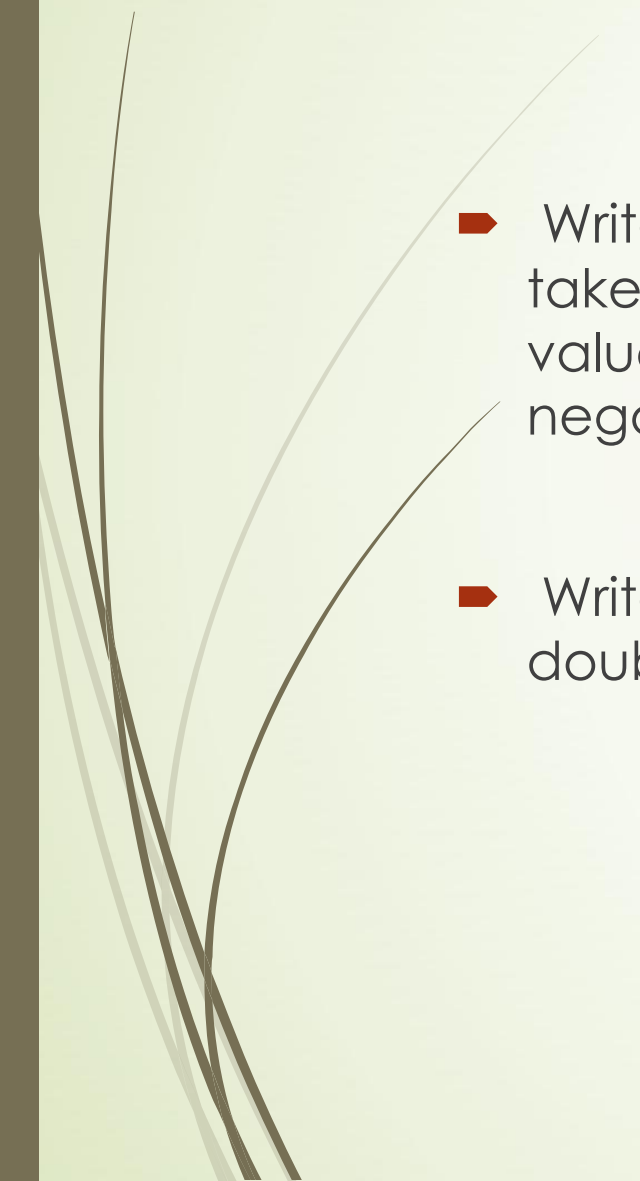
Fundamentals of programming I

Lab 5

Several thin, dark brown curved lines originate from the bottom-left corner and sweep upwards and to the right, creating a decorative, organic feel.

Exercises

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- Write a function definition for a function `is_root_of` that takes two arguments of type `int` and prints `true` if the first argument is the square root of the second; otherwise, it prints `false`.
 - Write a function definition for a function called `in_order` that takes three arguments of type `int`. The function prints `true` if the three arguments are in ascending order; otherwise, it prints `false`. For example, `in_order(1, 2, 3)` and `in_order(1, 2, 2)` both return `true`, while `in_order(1, 3, 2)` returns `false`.
 - Write a function definition for a function called `even` that takes one argument of type `int` and prints `true` if its one argument is an even number; otherwise, it prints `false`.

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- Write a function declaration and a function definition for a function that takes one argument of type double .The function prints the character value 'P' if its argument is positive and prints 'N' if its argument is zero or negative.
 - Write a function minimum that takes two parameters either of type double and prints the smaller of them.

- Write a function definition for a function `is_root_of` that takes two arguments of type `int` and prints `true` if the first argument is the square root of the second; otherwise, it prints `false`.

code 1

```
#include <iostream>
using namespace std;
void square_root(int x,int y){
    int result=y*y;
    if(result==x){
        cout<<"True ";
    }
    else{
        cout<<"False ";
    }
}
int main(){
    int num1,num2;
    cout<<"Enter first number "<<endl;
    cin>>num1;
    cout<<"Enter second number "<<endl;
    cin>>num2;
    square_root(num1,num2);

    return 0;
}
```

- Write a function definition for a function called `in_order` that takes three arguments of type `int`. The function prints `true` if the three arguments are in ascending order; otherwise, it prints `false`. For example, `in_order(1, 2, 3)` and `in_order(1, 2, 2)` both return `true`, while `in_order(1, 3, 2)` returns `false`.

code 2

```
#include <iostream>

using namespace std;

void function(int x, int y, int z) {
    if (x <= y && y <= z) {
        cout << "true";
    }
    else
        cout << "false";
}

int main()
{
    int num1, num2, num3;
    cout << "Enter First Number \n";
    cin >> num1;
    cout << "Enter Second Number \n";
    cin >> num2;
    cout << "Enter Third Number \n";
    cin >> num3;
    function(num1, num2, num3);
    return 0;
}
```


- ➡ Write a function definition for a function called `even` that takes one argument of type `int` and prints `true` if it's one argument is an even number; otherwise, it prints `false`.

code 3

```
#include <iostream>

using namespace std;

void even(int x) {
    if (x%2==0) {
        cout<<"true";
    }
    else
        cout<<"false";
}

int main()
{
    int num;
    cout<<"Enter The Number \n";
    cin>>num;

    even(num);
    return 0;
}
```

- Write a function declaration and a function definition for a function that takes one argument of type double .The function prints the character value 'P' if its argument is positive and prints 'N' if its argument is zero or negative.

code 4

```
#include <iostream>

using namespace std;

void positive(double x) {
    if (x>0) {
        cout<<'P';
    }
    else
        cout<<'N';
}

int main()
{
    int num;
    cout<<"Enter The Number \n";
    cin>>num;
    positive(num);
    return 0;
}
```

- Write a function `minimum` that takes two parameters either of type `double` and prints the smaller of them.

code 5

```
#include <iostream>

using namespace std;

void minimum(double x, double y) {
    if (x < y) {
        cout << x;
    }
    else
        cout << y;
}

int main()
{
    int num1, num2;
    cout << "Enter The First Number \n";
    cin >> num1;
    cout << "Enter The Second Number \n";
    cin >> num2;
    minimum(num1, num2);
    return 0;
}
```



Thank You !