Progam 02

Demonstration of Programs to Understand Structure & Unions.

a. Structure

Input	Output

#include <iostream>
#include <string>
using namespace std;
 	
struct Person {
  string name;
  int age;
  string occupation;
};
 	
int main() {
  Person person1;
  person1.name = "John";
  person1.age = 30;
  person1.occupation = "Engineer";
 	
  cout << "Name: " << person1.name << endl;
  cout << "Age: " << person1.age << endl;
  cout << "Occupation: " << person1.occupation << endl;
 	
  return 0;
}
	Name: John
	Age: 30
	Occupation: Engineer

b. Union

Input	Output

#include <iostream>
using namespace std;
 	
union Number {
  int i;
  float f;
  double d;
};
 	
int main() {
  Number num;
  num.i = 10;
 	
  cout << "Integer value: " << num.i << endl;
 	
  num.f = 3.14;
 	
  cout << "Float value: " << num.f << endl;
  cout << "Integer value: " << num.i << endl;
 	
  num.d = 3.14159;
 	
  cout << "Double value: " << num.d << endl;
  cout << "Float value: " << num.f << endl;
  cout << "Integer value: " << num.i << endl;
 	
  return 0;
}
	Integer value: 10
	Float value: 3.14
	Integer value: 1078523331
	Double value: 3.14159
	Float value: -1.92531e+29
	Integer value: -266631570