

CNG 104

PROGRAMMING LAB

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# TASKS AND CODES

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| #include <iostream>  using namespace std;  void printSquare(int num) {      // Task 4:      // Write a void function that takes one integer parameter and prints its square.      cout<<"\ntask 4 output: ";      cout << "The square of " << num << " is " << num \* num << endl;  }  void callByValue(int num) {      // Task 5:      // Write a program that demonstrates call by value, showing that the original variable does not      // change.      cout<<"\ntask 5 output: ";        num =num+50;      cout << " modified number inside function: " << num << endl;  }  void callByReference(int &num) {      // Task 6:      // Write a program that demonstrates call by reference, showing that the original variable      // changes.      cout<<"\ntask 6 output: ";      num = num + 50;      cout << " modified number inside function: " << num << endl;  }  int add(int a, int b) {      // Task 7:      // Write two overloaded functions named add() — one that adds two integers and another that      // adds two doubles.      cout<<"\ntask 7 output: ";      return a + b;  }  double add(double a, double b) {      return a + b;  }  void display() {      // Task 8:      // Write two overloaded functions named display() — one with no parameters and one with a      // string parameter.      cout<<"\ntask 8 output: ";      cout << "this is no parameter display function" << endl;  }  void display(string str) {      cout<<"this is string parameter display function: ";      cout <<"string entered is: "<< str << endl;  }  // void ovrd() {      //     cout << "This is the original function." << endl;      // } //original function declaration override is causing an error so I made it comment.        void ovrd() {          // Task 9:          // Write a simple program that overrides a function by redefining it with the same name and          // parameters in a new scope.            cout<<"\ntask 9 output: ";          cout << "This is the overrided function." << endl;      }        int max(int a, int b) {          // Task 10:          // Write a program that defines multiple overloaded max() functions to find the larger value          // among integers and floats.          if (a>b) {              return a;          } else {              return b;          }      }        float max(float a, float b) {          if (a>b) {              return a;          } else {              return b;          }      }        float max(int a, float b) {//to compare two functions returns.          if (a>b) {              return a;          } else {              return b;          }      }          int multiply(int a, int b) {          // Task 11:          // Write a program that uses the same function name for different parameter types to          // demonstrate function overloading.          return a \* b;      }        double multiply(double a, double b, double c) {          return a \* b \* c;      }          int main() {          cout<<"Enter an integer: ";          int number;          cin>>number;          printSquare(number);            callByValue(number);          cout << " original number in main function: " << number << endl;            int \*p=&number;          callByReference(\*p);          cout << " modified number in main function: " << number << endl;        cout << add(5, 10) << endl;      cout << add(5.5, 10.5) << endl;        display();      display("Hello World");        ovrd();        cout<<"\ntask 10 output: ";      cout << "int bigger value among 10 - 20 :"<<max(10, 20) << endl;      cout << "float bigger value among 10.5 - 20.5 :"<<max(10.5f, 20.5f) << endl;      cout<< "general bigger value among all given values 10 - 10.5 - 20 - 20.5 :"<<max(max(10,20), max(10.5f, 20.5f))<<endl;        cout<<"\ntask 11 output: ";      cout <<"original int multiply :"<< multiply(5, 10) << endl;      cout <<"overloaded double multiply :"<< multiply(5.5, 10.5, 15.5) << endl;      return 0;  } |

# OUTPUTS OF CODES

metin, ekran görüntüsü, yazı tipi içeren bir resim

Yapay zeka tarafından oluşturulmuş içerik yanlış olabilir.