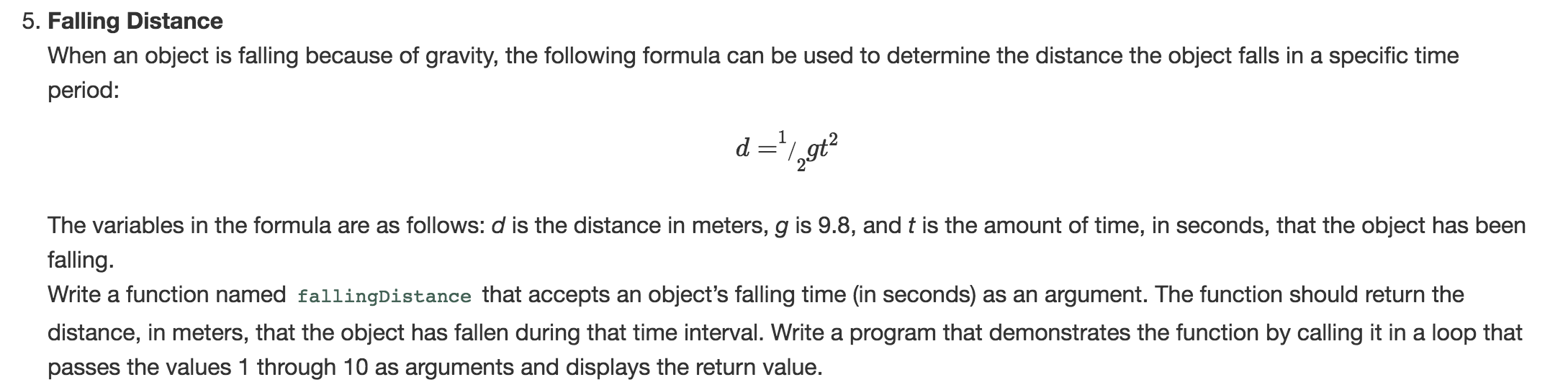
COMSC-110 Lab-5 Due: July-5-2020

Format:

1- After each problem statement, copy and paste the source code.

2- After the source code, paste the screen shot of the result.

3- Submit either word or pdf file (ONLY ONE FILE – NO MAC PAGE FILES)



Answer:

#include <iostream>

using namespace std;

double fallingDistance(int time, double g = 9.8);

int main() {

for ( int i=1; i <= 10; i++){

cout << fallingDistance(i) << endl;

}

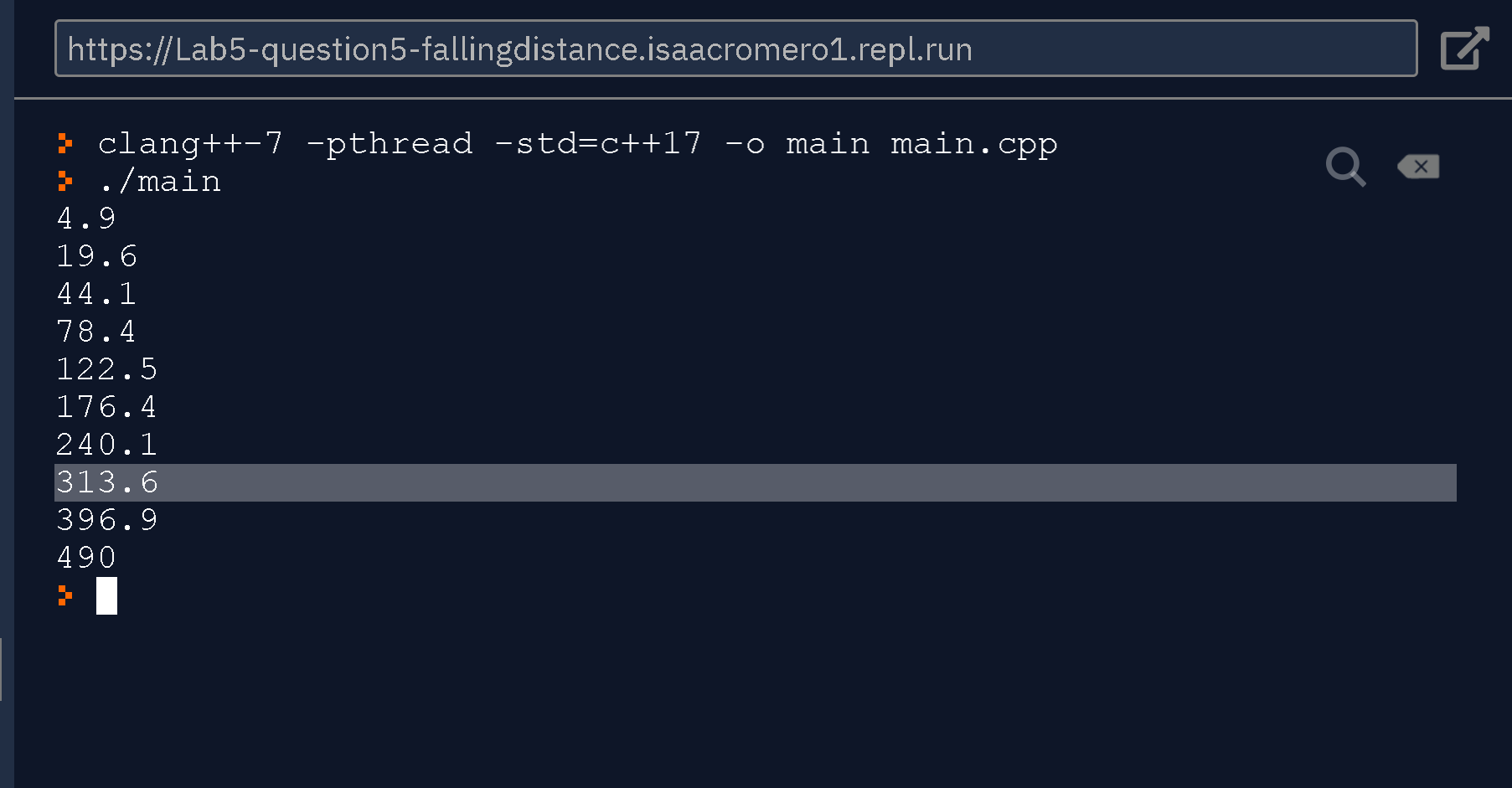
return 0;

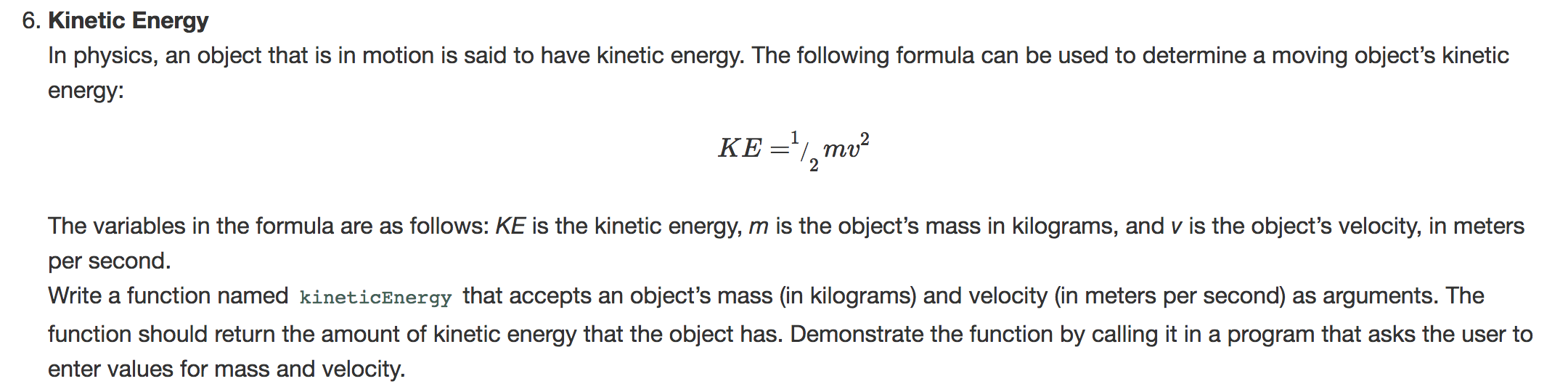
}

double fallingDistance(int time,double g){

return .5 \* g \*time \*time;

}





Answer:

#include <iostream>

using namespace std;

double keniticEnergy(double mass, double velocity);

int main() {

int mass, velocity;

cout << "What is the velocity of the object? " << endl;

cin >> velocity;

cout << "What is the mass of the object?" << endl;

cin >> mass;

cout << "The energy of the object is: " << keniticEnergy(mass,velocity) << endl;

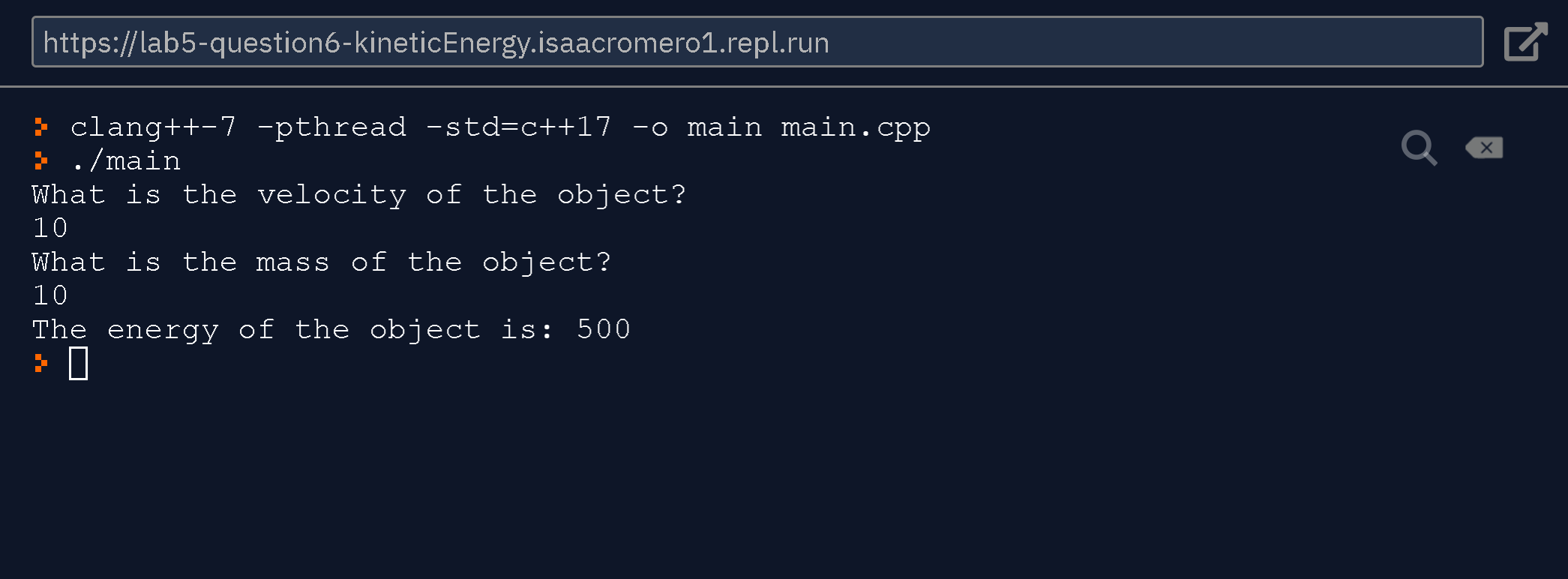
return 0;

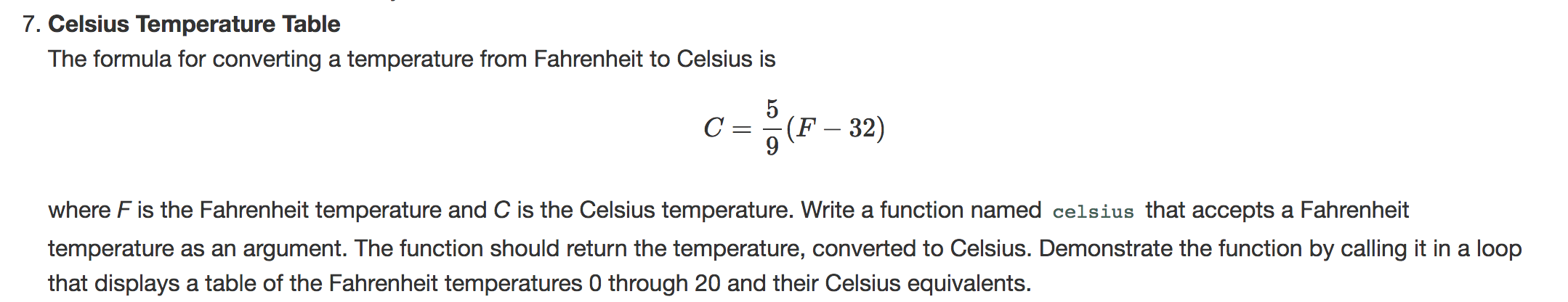
}

double keniticEnergy(double mass, double velocity){

return .5 \* mass \* velocity\* velocity;

}





Answer:

#include <iostream>

#include <iomanip>

using namespace std;

double celsius(double fahrenheit);

int main() {

for (int i = 0; i < 20; i++){

cout << setprecision(1) << fixed;

cout<< celsius(i) << endl;

}

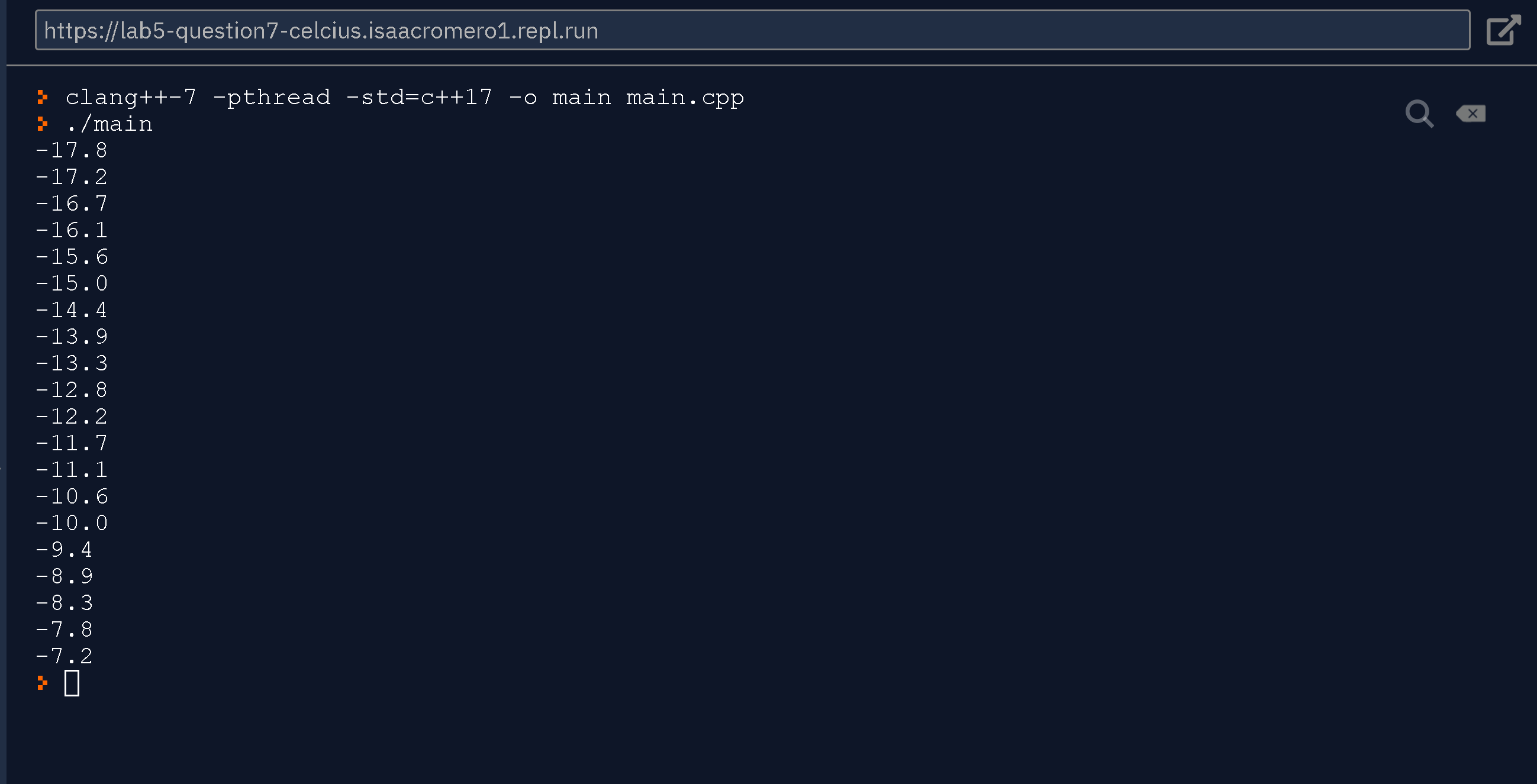
return 0;

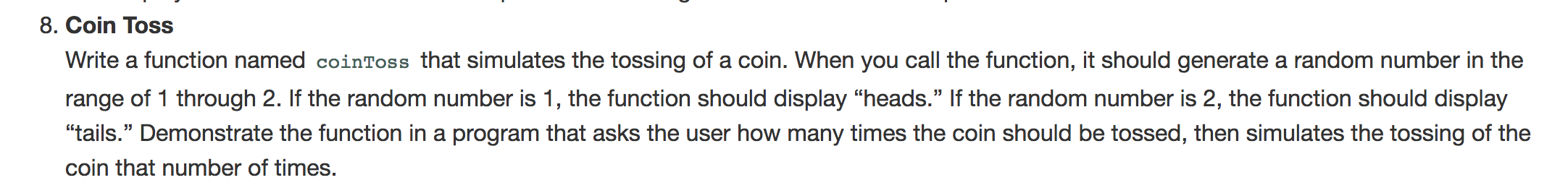
}

double celsius(double fahrenheit){

return 5.0/9.0 \* (fahrenheit-32);

}





Answer:

#include <iostream>

#include <stdlib.h>

using namespace std;

void coinToss();

int main() {

srand(time(NULL));

int counter;

cout << "How many toss should we do? " << endl;

do{

cin >> counter;

}while(counter < 0);

for ( int i=0; i < counter; i++){

coinToss();

}

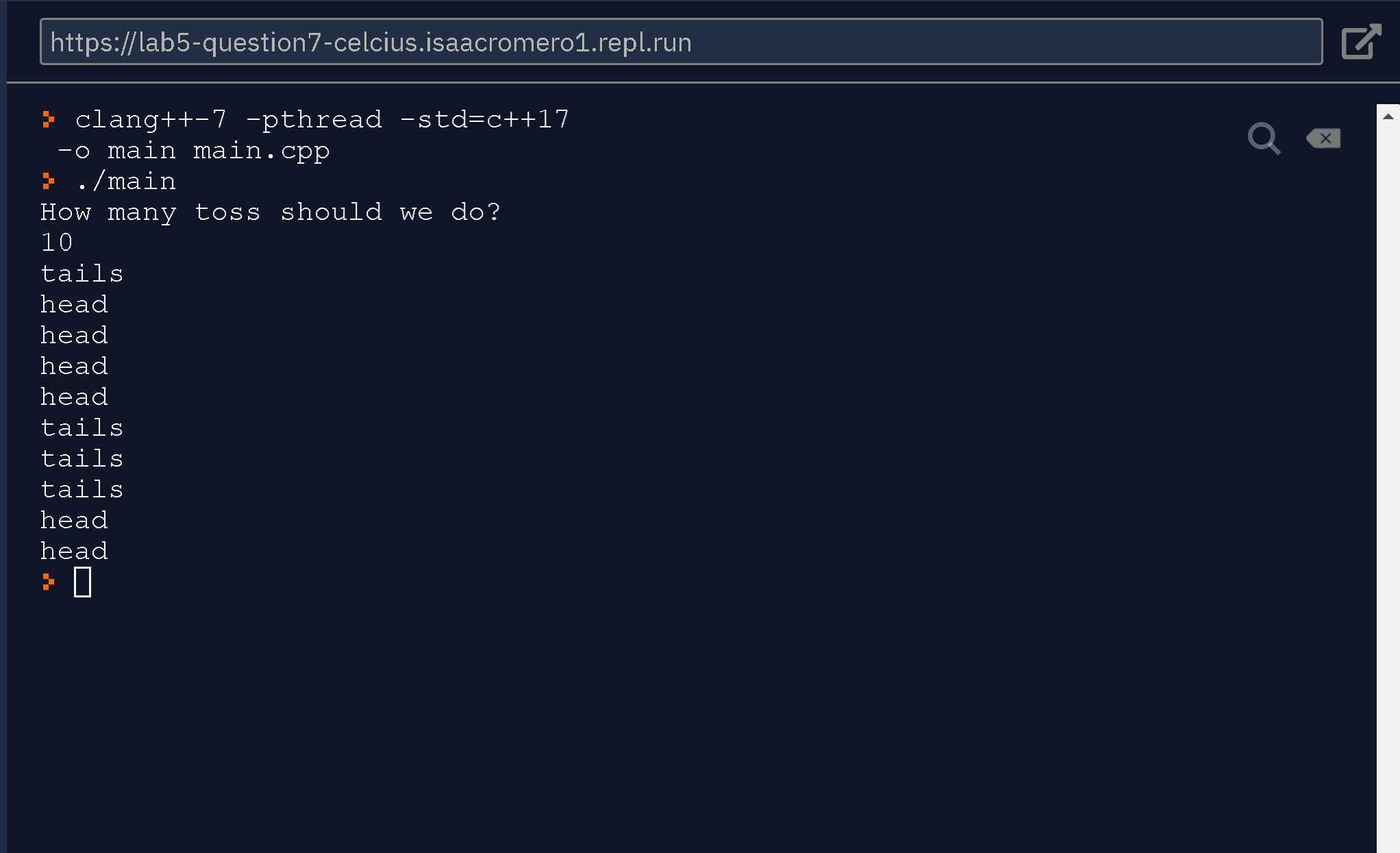
return 0;

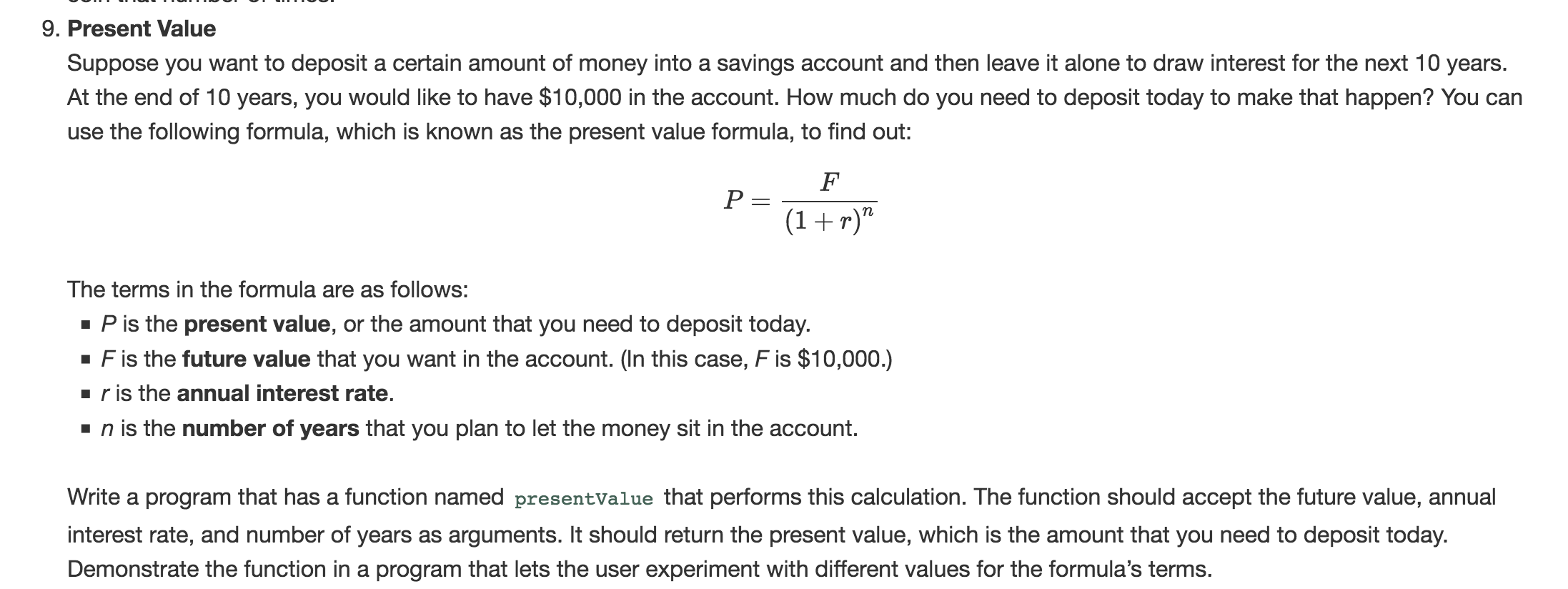
}

void coinToss(){

(rand()%2+1) == 1 ? cout <<"head"<< endl : cout <<"tails" << endl;

}





Answer:

#include <iostream>

#include <iomanip>

#include <stdlib.h>

#include <cmath>

using namespace std;

double presentValue(double futureValue, double rate, int years);

int main() {

double futureValue, rate;

int years;

cout << "How much would you like to have?" << endl;

cin >> futureValue;

cout << "In how many years?" << endl;

cin >> years;

cout << "What is the rate? (decimal)" << endl;

cin >> rate;

cout << setprecision(2) << fixed;

cout << "Your deposit is: $" << presentValue(futureValue, rate, years) << endl;

}

double presentValue(double futureValue, double rate, int years){

return futureValue / pow((1+rate), years);

}

