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**Subject:** PF Lab Assignment 6

**TASK 1**

#include<iostream>

using namespace std;

int main() {

int n;

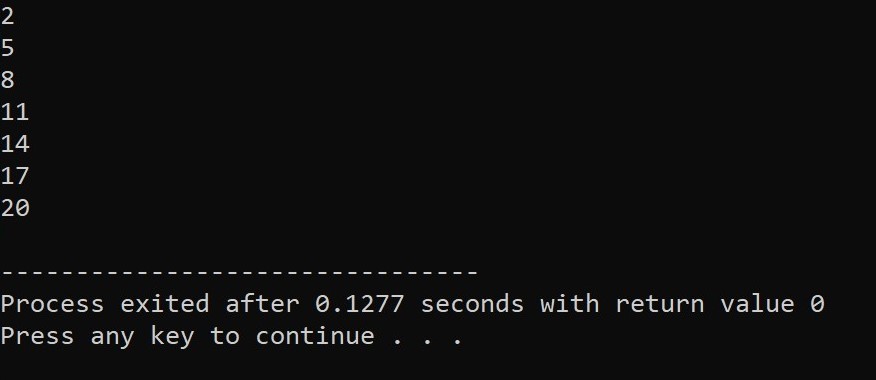
for(n=2;n<=20;n+=3) {

cout<<n<<endl;

}

return 0;

}



**TASK 2**

#include<iostream>

using namespace std;

int main() {

string correct\_password = "password123";

string user\_input;

int attempts = 0;

do {

cout << "Enter your password: ";

cin >> user\_input;

if (user\_input == correct\_password) {

cout << "Access granted!" << endl;

return 0;

} else {

cout << "Incorrect password. Try again." << endl;

attempts++;

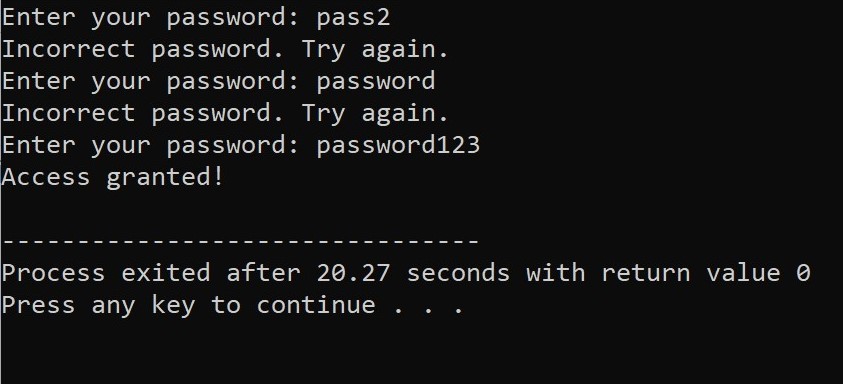
}

} while (attempts < 3);

cout << "Too many attempts. Access denied.";

return 0;

}



**TASK 3**

#include<iostream>

using namespace std;

int main() {

int secret\_number = rand() % 100 + 1;

int guess;

cout<< "Guess the secret number between 1 and 100: ";

do {

cin >> guess;

if (guess > secret\_number) {

cout << "Too high! Try again: ";

}

else if (guess < secret\_number) {

cout << "Too low! Try again: ";

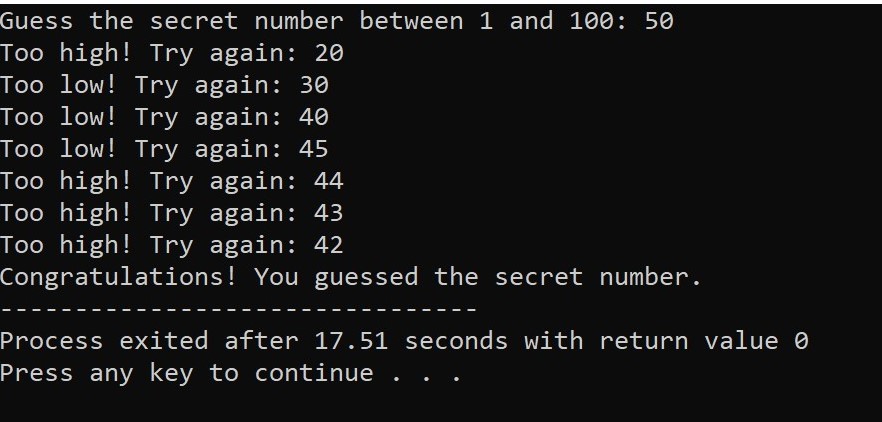
}

} while (guess != secret\_number);

cout << "Congratulations! You guessed the secret number.";

return 0;

}



**TASK 4**

#include<iostream>

using namespace std;

int main() {

int choice;

while (true) {

cout<<"\nMenu:\n";

cout<<"1. Print Hello\n";

cout<<"2. Print World\n";

cout<<"3. Exit\n";

cout<<"Enter your choice: ";

cin>>choice;

if (choice == 3) {

break;

}

switch (choice) {

case 1:

cout << "Hello" <<endl;

break;

case 2:

cout << "World" <<endl;

break;

default:

cout << "Invalid choice. Please try again." <<endl;

break;

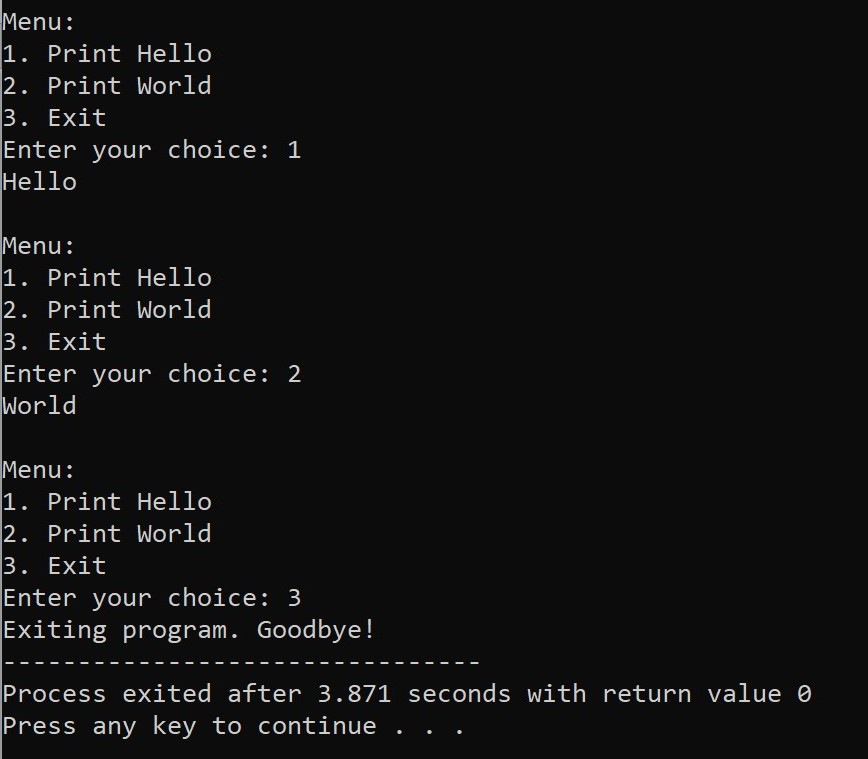
}

}

cout << "Exiting program. Goodbye!";

return 0;

}



**TASK 5**

#include<iostream>

using namespace std;

int main() {

int N;

int sum\_of\_squares = 0;

cout << "Enter a positive integer: ";

cin >> N;

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

sum\_of\_squares += i \* i;

}

cout << "The sum of squares of the first " << N << " natural numbers is: " << sum\_of\_squares;

return 0;

}

