**MODEL EXAM 1**

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Course: object oriented C++

Code: DSA0163

**1.)Write a c++ program create a class called person that has private data members for name,age and country import member function get set three of variable.**

#include<iostream>

using namespace std;

class person{

private:

string name;

int age;

string country;

public:

void set(){

cout<<"Enter Name: ";

cin>>name;

cout<<"Enter Age: ";

cin>>age;

cout<<"Enter courty: ";

cin>>country;

}

void display(){

cout<<name<<age<<country;

}

};

int main(){

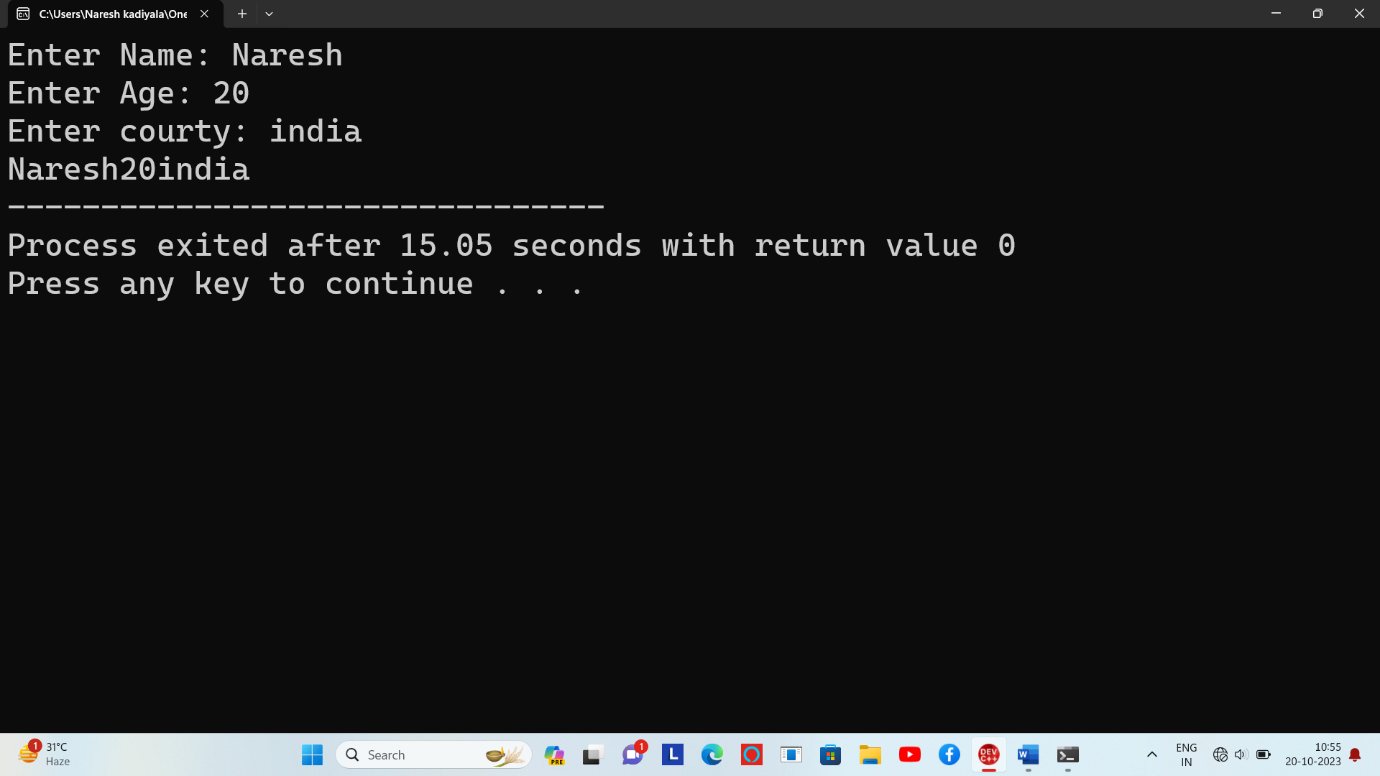
person person1;

person1.set();

person1.display();

return 0;

}



2.)**write a c++ program rectangle with two data member length and width and fuction to calculate the area.the cls 3 constructor. No parameter having,**

#include <iostream>

using namespace std;

class Rectangle {

private:

double length;

double width;

public:

Rectangle() {

length = 0.0;

width = 0.0;

}

Rectangle(double l, double w) {

length = l;

width = w;

}

Rectangle(double size) {

length = size;

width = size;

}

double calculateArea() {

return length \* width;

}

};

int main() {

Rectangle rect1;

cout << "Area of rect1: " << rect1.calculateArea() << endl;

Rectangle rect2(5.0, 3.0);

cout << "Area of rect2: " << rect2.calculateArea() << endl;

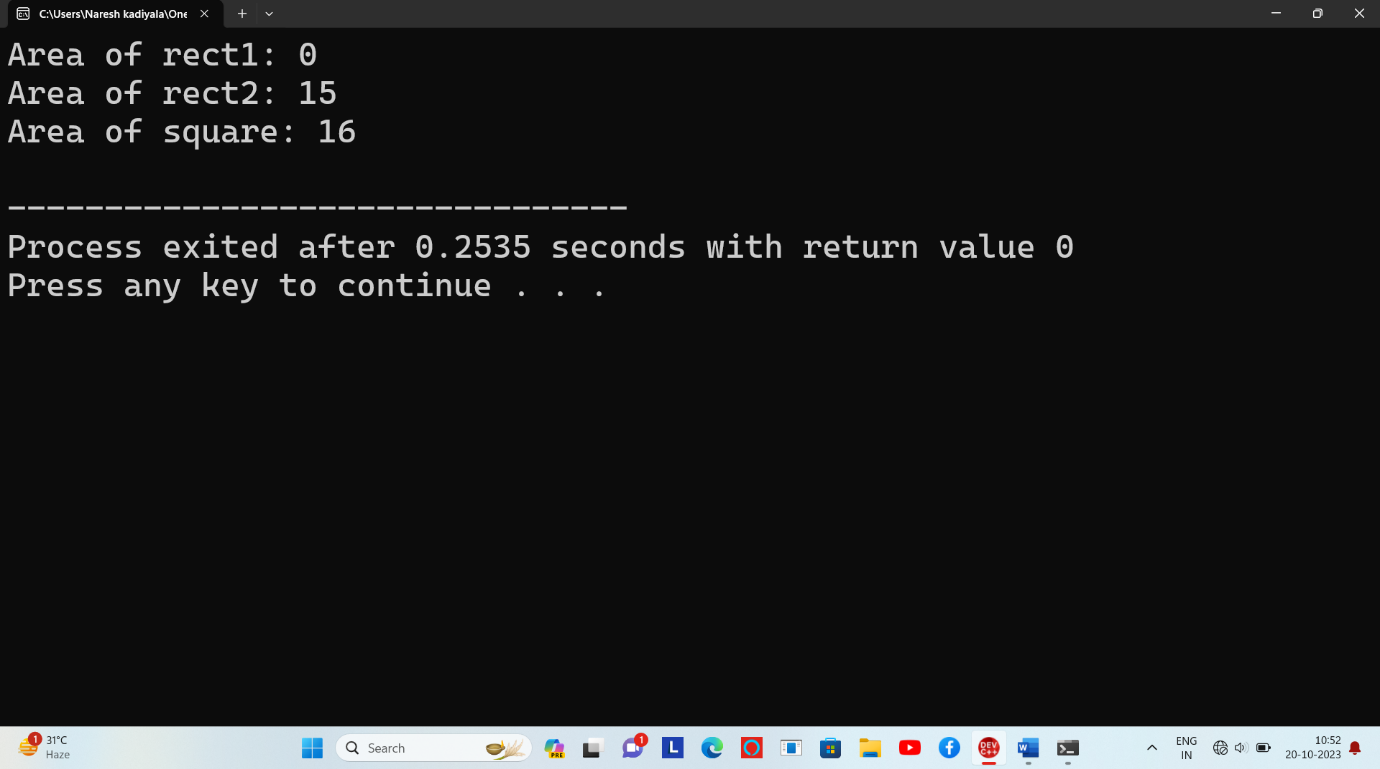
Rectangle square(4.0);

cout << "Area of square: " << square.calculateArea() << endl;

return 0;

}

**Output:**



**3.)pattern**

Code:-

#include<iostream>

using namespace std;

int main(){

int i,n;

cout<<"Enter a number: ";

cin>>n;

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

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

cout<<" 1";

}

cout<<endl;

}

return 0;

}

**Output:**

