**Assignment Number:4**

Solution 1:

#include <iostream>

using namespace std;

int main() {

int x = 10;

if (x == 5) {

cout << "x is equal to 5";

}

else {

cout << "x is not equal to 5";

}

return 0;

}

Solution 2:

#include <iostream>

using namespace std;

int main() {

int x = 10;

if (x == 10) {

cout << "x is equal to 10";

}

return 0;

}

Solution 3:

#include <iostream>

using namespace std;

int main() {

int x = 5;

if (x == 5) {

cout << "x is equal to 5";

}

else {

cout << "x is not equal to 5";

}

return 0;

}

Solution 4:

There’s no error in the code.

Solution 5:

There’s no error in the code.

Solution 6:

#include <iostream>

using namespace std;

int main() {

int x = 10;

if (x > 5){

cout << "x is greater than 5";

}else{

cout << "x is not greater than 5";

}

return 0;

}

Solution 7:

#include <iostream>

using namespace std;

int main() {

int x = 5;

if (x == 5) {

cout << "x is equal to 5";

}

else {

cout << "x is not equal to 5";

}

return 0;

}

Solution 8:

There’s no error in the code.

Solution 9:

There’s no error in the code.

Solution 11:

#include <iostream>

using namespace std;

int main() {

int i = 0;

while (i < 5) {

cout << i << " ";

i++;

}

return 0;

}

Solution 12:

#include <iostream>

using namespace std;

int main() {

int i;

for (i = 0; i < 5; i++) {

cout << i << " ";

}

cout << i;

return 0;

}

Solution 13:

#include <iostream>

using namespace std;

int main() {

int i = 0;

do {

cout << i << " ";

i++;

} while (i < 5);

return 0;

}

Solution 14:

There’s no error in the code.

Solution 15:

There’s no error in the code.

Solution 16:

#include <iostream>

using namespace std;

int main() {

int i = 0;

while (i < 5) {

cout << i << " ";

i += 2;

}

return 0;

}

Solution 17:

#include <iostream>

using namespace std;

int main() {

int i = 0;

do {

cout << i << " ";

i++;

} while (i < 5);

return 0;

}

Solution 18:

#include <iostream>

using namespace std;

int main() {

int i = 0;

while (i < 5) {

cout << i << " ";

i = i + 2;

}

return 0;

}

Solution 19:

#include <iostream>

using namespace std;

int main() {

for (int i = 0; i < 5; i++) {

cout << i << " ";

i = i \* 2;

}

return 0;

}

Solution 20:

There’s no error in the code.

Solution 21:

#include <iostream>

using namespace std;

void printMessage() {

cout << "Hello, world!" << endl;

}

int main() {

printMessage();

return 0;

}

Solution 22:

#include <iostream>

using namespace std;

void greet(string name) {

cout << "Hello, " << name << "!" << endl;

}

int main() {

greet("Alice");

greet(“Bob”);

return 0;

}

Solution 23:

#include <iostream>

using namespace std;

int add(int x, int y) {

return x + y;

}

int main() {

cout << add(5,3) << endl;

return 0;

}

Solution 24:

#include <iostream>

using namespace std;

void display(int x) {

cout << "Value: " << x << endl;

}

int main() {

int value=10;

display();

return 0;

}

Solution 25:

There’s no error in the code.

Solution 26:

There’s no error in the code.

Solution 27:

There’s no error in the code.

Solution 28:

There’s no error in the code.

Solution 29:

There’s no error in the code.

Solution 30:

There’s no error in the code.

Solution 31:

#include <iostream>

using namespace std;

class Rectangle {

public:

int length;

int width;

int area() {

return length \* width;

}

};

int main() {

Rectangle rect;

rect.length = 5;

rect.width = 3;

cout << "Area: " << rect.area() << endl;

return 0;

}

Solution 32:

#include <iostream>

using namespace std;

class Circle {

public:

double radius;

double area() {

return 3.14 \* radius \* radius;

}

};

int main() {

Circle c;

c.radius = 5;

cout << "Area: " << c.area()<< endl;

return 0;

}

Solution 33:

#include <iostream>

using namespace std;

class Student {

public:

string name;

int age;

void display() {

cout << "Name: " << name << ", Age: " << age << endl;

}

};

int main() {

Student s;

s.name = "Alice";

s.age = 20;

s.display();

return 0;

}

Solution 34:

There’s no error in the code.

Solution 35:

There’s no error in the code.

Solution 36:

#include <iostream>

using namespace std;

class Car {

public:

string model;

string brand;

};

int main() {

Car c;

c.model = "Civic";

c.brand = "Honda";

cout << "Car: " << c.model << " by " << c.brand << endl;

return 0;

}

Solution 37:

There’s no error in the code.

Solution 38:

#include <iostream>

using namespace std;

class Circle {

public:

double radius;

double area() {

return 3.14 \* radius \* radius;

}

};

int main() {

Circle c;

c.radius = 7;

cout << "Area: " << c.area()<< endl;

return 0;

}