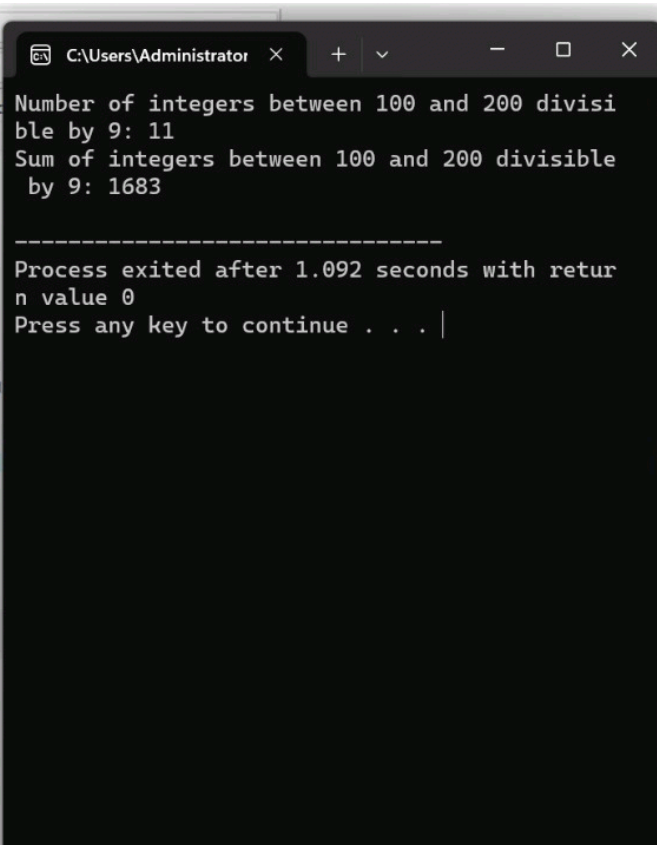


The screenshot shows a C++ IDE with a project named "TDM-GCC". The code is in a file named "model exam 2.cpp". The code defines a class "DivisibleByNine" with two methods: "findNumbers()" and "printResult()". The "findNumbers()" method iterates from 100 to 200, counting and summing numbers divisible by 9. The "printResult()" method prints the count and sum. The "main()" function creates an object of "DivisibleByNine" and calls these methods.

```
7 public:
8     DivisibleByNine() : count(0), sum(0) {}
9
10 void findNumbers() {
11     for (int i = 100; i <= 200; ++i) {
12         if (i % 9 == 0) {
13             count++;
14             sum += i;
15         }
16     }
17 }
18 void printResult() {
19     cout << "Number of integers between 100 and 200 divisible by 9: " << count << endl;
20     cout << "Sum of integers between 100 and 200 divisible by 9: " << sum << endl;
21 }
22 };
23 int main() {
24     DivisibleByNine obj;
25     obj.findNumbers();
26     obj.printResult();
27 }
28 return 0;
29 }
30 }
```

The IDE also shows a "Compile Log" window with the following output:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Documents\model exam 2nd.exe
- Output Size: 1.83388519287109 MiB
- Compilation Time: 1.77s
```

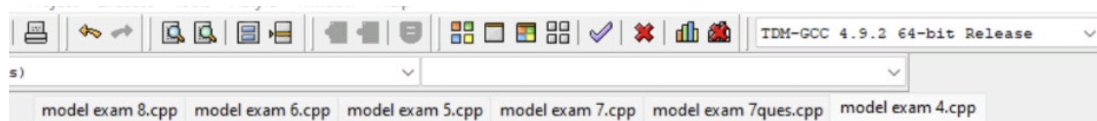


The screenshot shows a command prompt window with the following output:

```
C:\Users\Administrator>
Number of integers between 100 and 200 divisible by 9: 11
Sum of integers between 100 and 200 divisible by 9: 1683

-----

Process exited after 1.092 seconds with return value 0
Press any key to continue . . . |
```

```
16     double radius, height;
17 public:
18     Cylinder() : radius(0), height(0) {}
19     Cylinder(double r) : radius(r), height(0) {}
20     Cylinder(double r, double h) : radius(r), height(h) {}
21
22     double volume() {
23         return 3.14159 * radius * radius * height;
24     }
25 };
26
27 int main() {
28     Cube cube1;
29     Cube cube2(3.0);
30     Cylinder cylinder1;
31     Cylinder cylinder2(2.0);
32     Cylinder cylinder3(2.0, 5.0);
33     cout << "Volume of cube with side 0: " << cube1.volume() << endl;
34     cout << "Volume of cube with side 3: " << cube2.volume() << endl;
35     cout << "Volume of cylinder with radius 0 and height 0: " << cylinder1.volume() << endl;
36     cout << "Volume of cylinder with radius 2 and height 0: " << cylinder2.volume() << endl;
37     cout << "Volume of cylinder with radius 2 and height 5: " << cylinder3.volume() << endl;
38
39     return 0;
}
```

ces Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Documents\model exam 4.exe
- Output Size: 1.83452224731445 MiB
- Compilation Time: 1.91s

A terminal window with a dark background and white text. It shows the output of the program, including volumes of cubes and cylinders. A separator line is followed by the message 'Process exited after 0.6742 seconds with return value 0' and 'Press any key to continue . . . |'.

View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

obals)

model exam 8.cpp model exam 6.cpp

```
4 public:
5     virtual void printNumber(int num) {
6         std::cout << num << " ";
7     }
8 };
9
10 class Skipper : public Number {
11 public:
12     void printNumber(int num) override {
13         if (num != 50 && num != 100 && num != 7) {
14             Number::printNumber(num);
15         }
16     }
17 };
18
19 int main() {
20     Number *num = new Skipper();
21
22     for (int i = 50; i <= 100; i += 8) {
23         num->printNumber(i);
24     }
25
26     delete num;
27     return 0;
28 }
```

Resources Compile Log Debug Find Results Close

ers\Administrator\Documents\model exam 6.cpp [Warning] override controls (overri

C:\Users\Administrator\Docu

58 66 74 82 90 98

Process exited after 0.5983 seconds with return value 0
Press any key to continue . . .

```
1  #include <iostream>
2  using namespace std;
3
4  class Largest {
5  private:
6      int a, b;
7      int mas;
8
9  public:
10     void setData(int x, int y) {
11         a = x;
12         b = y;
13     }
14
15     friend void find_max(Largest obj);
16 };
17
18 void find_max(Largest obj) {
19     obj.mas = (obj.a > obj.b) ? obj.a : obj.b;
20     cout << "Maximum no is " << obj.mas << endl;
21 }
22
23 int main() {
24     Largest obj;
25     int x, y;
26
27     cout << "Enter the first no:";
28     cin >> x;
29     cout << "Enter the second no:";
30     cin >> y;
31
32     obj.setData(x, y);
33     find_max(obj);
34
35     return 0;
36 }
```

```
C:\Users\Administrator\Docu  X + v
Enter the first no:5
Enter the second no:9
Maximum no is 9

-----
Process exited after 4.541 seconds with
Press any key to continue . . . |
```

IDM-GCC 4.9.2 64-bit Release

model exam 8.cpp model exam 6.cpp model exam 5.cpp model exam 7.cpp model exam 7ques.cpp

```
1  #include <iostream>
2  using namespace std;
3  class AddNumbers {
4  public:
5      int add(int a, int b) {
6          return a + b;
7      }
8  };
9  class Sum : public AddNumbers {
10 public:
11     int sumOfTwoNumbers(int x, int y) {
12         return add(x, y);
13     }
14 };
15
16 int main() {
17     Sum sumObj;
18     int num1 = 5, num2 = 10;
19     cout << "Sum of " << num1 << " and " << num2 << " is: " << sumObj.sumOfTwoNumbers(num1, num2) << endl;
20     return 0;
21 }
22
```

Compile Log Debug Find Results Close

Compilation results...

Errors: 0
Warnings: 0

C:\Users\Administrator

Sum of 5 and 10 is: 15

Process exited after 0.8793 seconds with return value 0
Press any key to continue . . .



model exam 8.cpp

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int marks[4];
6      float total = 0, aggregate;
7
8      cout << "Enter marks in four subjects:" << endl;
9      for(int i = 0; i < 4; i++) {
10         cout << "Subject " << i+1 << ": ";
11         cin >> marks[i];
12         total += marks[i];
13     }
14
15     aggregate = total / 4.0;
16     cout << "Total marks: " << total << endl;
17     cout << "Aggregate: " << aggregate << endl;
18
19     if (aggregate > 75.0) {
20         cout << "Grade: Distinction" << endl;
21     } else {
22         cout << "Grade: Normal" << endl;
23     }
24
25     return 0;
26 }
```

es Compile Log Debug Find Results Close

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Documents\model exam 8.cpp
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.84s
```

C:\Users\Administrator\Documents\model exam 8.cpp

Enter marks in four subjects:

Subject 1: 88

Subject 2: 90

Subject 3: 76

Subject 4: 98

Total marks: 352

Aggregate: 88

Grade: Distinction

Process exited after 16.32 seconds with return value 0

Press any key to continue . . .