```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the 'x' co-ordinates of the points:

2
Enter the 'y' co-ordinates of the points:

2
1
The distance between thepoints is:2
Process finished with exit code 0
```

```
(HOME TASK #2)
#include <iostream>
using namespace std;
int main() {
    float lincm, linm, linkm;
    cout<<"Enter the length in centimeter: ";
    cin>>lincm;
    cout<<"The length in meters is:"<<li>lincm/100<<endl;
    cout<<"The length in kilometers is:"<<li>return 0;
}
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the length in centimeter:10
The length in meters is:0.1
The length in kilometers is:0.0001

Process finished with exit code 0
```

```
(HOME TASK #3)
#include <iostream>
using namespace std;
int main() {
    int a, b, result;
    cout<<"Enter the numbers 'a' and 'b': ";
    cin>>a;
    cin>>b;
    result=(a*a)+(2*a*b)+(b*b);
    cout<<"The answer is: "<<result;
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the numbers 'a' and 'b':

3

5

The answer is: 64
Process finished with exit code 0
```

```
(HOME TASK #4)
#include <iostream>
using namespace std;
int main() {
    float temp_in_fahrenheit,temp_in_celsius;
    cout<<"Enter the temperature in fahrenheit: ";
    cin>>temp_in_fahrenheit;
    temp_in_celsius=((temp_in_fahrenheit-32)*5)/9;
    cout<<"The temperature in celsius is: "<<temp_in_celsius;
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the temperature in fahrenheit:104
The temperature in celsius is: 40
Process finished with exit code 0
```

```
#include <iostream>
using namespace std;
int main() {
   int age;
   cout<<"Enter your age: ";
   cin>>age;
   if (age<18) {
      cout<<"You are not eligible for vote!";
   }
   else{
      cout<<"You are eligible for vote!";
   }
   return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter your age:

19
You are eligible for vote!
Process finished with exit code 0
```

```
(LAB TASK #2)
#include <iostream>
using namespace std;
int main() {
    int num;
    cout<<"Enter the number: ";
    cin>num;
    if(num>10 and num<50) {
        cout<<"The number is in the range!";
    }
    else{
        cout<<"The number is outside the range!";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the number: 12
The number is in the range!
Process finished with exit code 0
```

```
(LAB TASK #3)
#include <iostream>
using namespace std;
int main() {
   int num1, num2, larger;
   cout<<"Enter 2 numbers: ";
   cin>>num1;
   cin>>num2;
   if (num1>num2) {
      cout<<"The greater number is:"<<num1;
   } else{
      cout<<"The greater number is:"<<num2;
   }
   return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter 2 numbers: 69
98
The greater number is:98
Process finished with exit code 0
```

```
(LAB TASK #4)
#include <iostream>
using namespace std;
int main() {
    int marks1, marks2, marks3, avg;
    cout<<"Enter marks of three subjects: ";
    cin>>marks1;
    cin>>marks2;
    cin>>marks2;
    cin>>marks3;
    avg=(marks1+marks2+marks3)/3;
    if (avg>=60) {
        cout<<"You have passed!";
    }
    else {
        cout<<"You have failed!";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter marks of three subjects:70

88

96

You have passed!
Process finished with exit code 0
```

```
(HOME TASK #1)
#include <iostream>
using namespace std;
int main() {
   int marks;
   cout<<"Enter your marks: ";
   cin>marks;
   if (marks>90 and marks<=100){
      cout<<"A grade!";
   }
   else if (marks>75 and marks<=90) {
      cout<<"B grade!";
   }
   else if (marks>60 and marks<=75) {
      cout << "C grade!";
   }
   else if (marks>45 and marks<=60) {
      cout << "D grade!";
   }
   else if (marks>=0 and marks<=45) {
      cout << "F grade!";
   }
   return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter your marks:97
A grade!
Process finished with exit code 0
```

```
(HOME TASK #2)
#include <iostream>
using namespace std;
int main() {
    int num;
    cout<<"Enter a number: ";
    cin>>num;
    if (num%2==0 and num%5==0) {
        cout<<"This number is valid";
    } else {
        cout<<"This number is not valid";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter a number:89
This number is not valid
Process finished with exit code 0
```

```
(HOME TASK #3)
#include <iostream>
using namespace std;
int main() {
    int year;
    cout<<"Enter the year: ";
    cin>>year;
    if (year%4==0) {
        cout<<"This is a leap year!";
    } else {
        cout<<"This is not a leap year";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter the year:2024
This is a leap year!
Process finished with exit code 0
```

```
(HOME TASK #4)
#include <iostream>
using namespace std;
int main() {
    float attendance, gpa;
    cout<<"Enter your GPA and attendance respectively: ";
    cin>>gpa;
    cin>>attendance;
    if(gpa>=3.5 and attendance>=80) {
        cout<<"You are eligible for scholarship!";
    } else {
        cout<<"You are not eligible for scholarship!";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter your GPA and attendance respectively:3.6

83

You are eligible for scholarship!
Process finished with exit code 0
```

```
(HOME TASK #5)
#include <iostream>
using namespace std;
int main() {
    char letter;
    cout<<"Enter a letter: ";
    cin>>letter;
    if (letter=='a' or letter=='e' or
        letter=='i' or letter=='o' or
        letter=='u') {
        cout<<"letter is a vowel";
    } else{
        cout<<"letter is not a vowel";
    }
    return 0;
}</pre>
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter a letter:i
The letter is a vowel
Process finished with exit code 0
```