}

Output:

```
14. Program to
print numbers from 1 to 10 using for loop
Program:
#include<iostream>
using namespace std;
int main(){
         cout<<"Printing numbers 1 to 10"<<endl;
for(int i=1;i<11;i++){
cout<<i<<endl;
}
Output:
   Printing numbers 1 to 10
    2
    3
    4
    5
    6
    7
    8
    9
    10
15. Factorial of
a number using for loop
Program:
#include<iostream>
using namespace std;
int main(){
int x,fact=1;
         cout<<"Enter the number"<<endl;
cin>>x;
for(int i=1;i<x+1;i++){
                fact=fact*i;
```

}

cout<<"The factorial is "<<fact;

```
int x,y;
string result;
cout<<"Enter the two numbers "<<endl;
cin>>x;
}
cin>>y;
result=(x==y) ? "They are equal" : "They are not
equal"; cout<<result;</pre>
```

```
Enter the two numbers
6
3
They are not equal
------
Process exited after 3.357 seconds with return value 0
Press any key to continue . . .
```

13. Program to

check the integer is divisible by 3 or not using ternary conditional operator

```
Program:
#include<iostream>
#include<string>
using namespace std;
int main(){
  int x;
  string result;
  cout<<"Enter the number"<<endl;
  cin>>x;
  result=(x%3==0) ? "Divisible by three" : "Not divisible by three";
  cout<<result;
}
Output:</pre>
```

```
Enter the number
9
Divisible by three
------
Process exited after 2.084 seconds with return value 0
Press any key to continue . . .
```

11.Largest among

three numbers using ternary conditional operator

```
Program:
#include<iostream>
using namespace std;
int main(){
int x,y,z,l;
cout<<"Enter the three numbers"<<endl;</pre>
cin>>x:
cin>>v:
cin>>z;
l=x;
if(y>l){}
l=y;
if(z>l){}
l=z;
}
          cout<<"The greatest of three numbers is "<<l;</pre>
Output:
```

12. Program to

check two numbers are equal or not using ternary conditional operator

```
Program:
#include<iostream>
#include<string>
using namespace std;
int main(){
```

9. Program to read a floating-number and round it to the nearest integer using the floor an ceil functions.

Enter the number 5.3 The nearest higher number is 6 The nearest lower number is 5

------Process exited after 3.072 seconds with return value 0
Press any key to continue . . .

10.Program to

swap two numbers using bitwise XOR operator

```
Program:
#include<iostream>
using namespace std;
int main(){
  int x,y;
  cout<<"Enter the numbers "<<endl;
  cin>>x;
  cin>>y;
        cout<<"Before swapping x = "<<x<<" y = "<<y<endl;
x=x^y;
y=x^y;
x=x^y;
cout<<"After swapping, x = "<<x<<" y = "<<y;
}
Output:</pre>
```

```
if(x>0){
                 cout<<"Positive number";
   else if(x<0){
                cout<<"Negative number";
   else{
                cout<<"Zero";
   }
   }
   Output:
    Enter the number-5
    Negative number
    Process exited after 4.526 seconds with return value 0
    Press any key to continue . . .
8. Program to determine which number is greater among two
   integers
   Program:
   #include<iostream>
   using namespace std;
   int main(){
   int x,y;
   cout<<"Enter the two numbers"<<endl;</pre>
   cin>>x;
   cin>>y;
   if(x>y){
   cout<<"First number is greater";
   }
   else{
   cout<<"Second number is greater";</pre>
   Output:
   Enter the two numbers
   First number is greater
    Process exited after 4.374 seconds with return value 0
    Press any key to continue . . .
```

6. Program to check the character is a vowel or consonant

```
Program:
#include<cctype>
#include<iostream>
using namespace std;
int main(){
char x;
cout<<"Enter the character"<<endl;
cin>>x:
char y=tolower(x);
            if(y=='a' || y=='e' || y=='i' || y=='o' || y=='u'){
cout<<"It is a vowel";
}
else{
                cout<<"It is a consonant";
}
}
Output:
```

```
Enter the character
a
It is a vowel
------
Process exited after 3.516 seconds with return value 0
Press any key to continue . . .
```

7. Program to check the number is positive, negative or zero Program: #include<iostream> using namespace std; int main(){ int x; cout<<"Enter the number"; cin>>x;

```
Enter the two numbers

5

9

They are not equal
------
Process exited after 3.396 seconds with return value 0

Press any key to continue . . .
```

5. Write a program to read in two Floating numbers and perform the following operations on them: addition, subtraction, multiplication, division, and modulo.

```
Program:
#include<iostream>
using namespace std;
int main(){
float x,y;
cout<<"Enter two numbers"<<endl;
cin>>x;
cin>>y;
float sum=x+y;
float diff=x-y;
float mul=x*y;
float div=x/y;
cout<<"The sum is "<<sum<<endl;
        cout<<"The difference is "<<diff<<endl;
cout<<"The product is "<<mul<<endl;
cout<<"The modulo is "<<div<<endl;
return 0;
}
Output:
```

```
Enter two numbers
5.23
10.85
The sum is 16.08
The difference is -5.62
The product is 56.7455
The modulo is 0.482028

------
Process exited after 6.478 seconds with return value 0
Press any key to continue . . .
```

```
int avg=(x+y+z)/3;
     cout<<"The averaage is "<<avg;
return 0;
}</pre>
```

Output:

4. Program to check two numbers are equal or not

```
Program:
#include<iostream>
using namespace std;
int main(){
int x,y;
            cout<<"Enter the two numbers"<<endl;</pre>
cin>>x;
cin>>y;
if(x==y){
cout<<"They are equal";</pre>
}
else{
cout<<"They are not equal";
}
}
Output:
```

2. Program to determine the integer is odd or even

Output:

```
Enter the number

8
It is an even number
------
Process exited after 2.218 seconds with return value 0
Press any key to continue . . .
```

3. Program to compute the average of three integers

OBJECT ORIENTED PROGRAMMING WITH C++

ASSIGNMENT WORK-2 DATE: 30th December 2023

192110266

1. Write a program to read in two integers and perform the following operations on them: addition, subtraction, multiplication, division, and modulo.

```
Program:
#include<iostream>
using namespace std;
int main(){
int x,y;
cout<<"Enter two numbers"<<endl;
cin>>x;
cin>>y;
int sum=x+y;
int diff=x-y;
int mul=x*y;
int div=x%y;
cout<<"The sum is "<<sum<<endl;
     cout<<"The difference is "<<diff<<endl;
cout<<"The product is "<<mul<<endl;
cout<<"The modulo is "<<div<<endl;
return 0;
}
```

Output: