

## Programming lab Home Task

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Section C

**Q No:04** 

```
#include <iostream>
using namespace std;
int main() {
  int decimal ,binary=0 , base =1;
  cout << "Please enter the decimal number";
  cin>>decimal;
  while(decimal>0)
  {
   binary+=(decimal%2)*base;
  decimal/=2;
  base*=10;
   }
   cout << "The binary number is:" << binary;
   return 0;
   }
}</pre>
```

## Q.No:03

```
#include <iostream>
using namespace std;int
main(){
int n,i,j,space;
cout<<"Please enter the number of rows:";cin>>n;
for(i=1;i<=n;i++){
for(space=1;space<=n-i;space++){cout<<"<"}</pre>
```

## Q.No:02

```
#include <iostream>
using namespace std;
int main(){
int num1,num2,commondifference,numterms;
cout<<"Enter first number:";
cin>>num1;
cout<<"Enter second number:";
cin>>num2;
```

```
cout<<"Enter common difference:";
cin>>commondifference; cout<<"Enter
the number of terms:";
cin>>numterms;
int sum=0;
int currentterm

for(int
        i=1;i<=numterms;i++){su
        m+=numterms;
        numterm+=common difference;
}

cout<<"The sum of AP series is:"<<sum;
endl;
}</pre>
```

## Q.No:01

#include <iostream>

using namespace std;

```
int calculateHCF(int num1, int num2) {
     while (num2 != 0) {
           int temp = num2;
           num2 = num1 % num2;
           num1 = temp;}
     return num1;}
int calculateLCM(int num1, int num2) {
     int hcf = calculateHCF(num1, num2);
     int lcm = (num1 * num2) / hcf;
     return lcm;
}
```

```
int main() {
    int num1, num2;
    cout << "Enter first number: ";</pre>
    cin >> num1;
    cout << "Enter second number: ";</pre>
 cin >> num2;
    // Calculate and display the LCM
    num2) << endl;
 return 0;
```