

## Fundamentals of programming Assignment Home task 5

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## Q:Write a program to convert decimal into binary.

```
#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;</pre>
      return 0;
         occess exited after 4.945 seconds with return value 0 ress any key to continue . . .
```

Q:Write a program to create a diamond.

```
#include <iostream>
using namespace std;
int main(){
int n,i,j,space;
cout<<"Please enter the number of rows:";</pre>
cin>>n;
for(i=1;i<=n;i++){
for(space=1;space<=n-i;space++){</pre>
cout<<" ";}
for(j=1;j<=2*i-1;j++){
cout<<"*";}
cout<<endl;
}
// for lower part of the diamond
for(i=1;i>=n;i--){
for(space=1;space<=n-i;space++){</pre>
cout<<" ";}
for(j=1;j<=2*n-1;j++){
     cout<<"*";
cout<<endl;
```

```
}
return 0;
     Q:Write a program to find arithematic progression of
two numbers.
#include <iostream>
using namespace std;
int main(){
int num1,num2,commondifference,numterms;
cout<<"Enter first number:";</pre>
cin>>num1;
cout<<"Enter second number:";</pre>
cin>>num2;
cout<<"Enter common difference:";
cin>>commondifference;
cout<<"Enter the number of terms:";</pre>
cin>>numterms;
int sum=0;
int currentterm
for(int i=1;i<=numterms;i++){</pre>
     sum+=numterms;
```

## numterm+=common difference;

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