Fundamentals of Programming

Home Task: 5

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Code:

```
#include <iostream>
using namespace std;

int main() {
  int x,y,hcf,lcm;
    cout << "Enter the first number"<<endl;
    cin>>x;
    cout<<"Enter the second number"<<endl;
    cin>>y;
    if (y!=0) {
        hcf=x%y;
    }
    lcm=(x*y)/hcf;
    cout<<"The LCM of the selected numbers is : "<<lcm;
    return 0;
}</pre>
```

```
Enter the first number
13
Enter the second number
7
LCM of the given numbers is : 15
```

Code:

```
#include <iostream>
using namespace std;
int main() {
int x,y,t,ans;
  cout << "Enter the First number"<<endl;</pre>
  cin>>x;
  cout << "Enter the Last number" << endl;
  cin>>y;
  cout<<"Enter the number of the Terms to be added"<<endl;
  cin>>t;
  ans=(t/2)*(x+y);
  cout<<"The sum of Arithmetic Progression is: "<<ans<<endl;
  return 0;
```

```
Enter the First number

56
Enter the Last number

34
Enter the number of the Terms to be added

17
The sum of Arithmetic Progression is: 720
```

Code:

```
#include<iostream>
using namespace std;
int main() {
  int size;
  cout << "Enter the size of the shape"<<endl;</pre>
  cin >> size;
  for(int i = 1; i \le size; i++) {
     for(int j = 1; j \le size-i; j++) {
        cout<<" ";}
       for(int j=1; j \le 2*i-1; j++){
          cout << "*";
     cout << "\n";
  }
  for(int i=size-1;i>=1;i--){
      for(int j=1;j \le size-i;j++){
     cout<<" ";}
     for(int j=1; j \le 2*i-1; j++){
        cout<<"*";
      cout << "\n";
  return 0; }
```

Code:

```
#include <iostream>
using namespace std;
int main(){
  int dec,count=0,i;
  cout<<"Enter the decimal number : ";</pre>
  cin>>dec;
  int binary[32];
  if(dec==0)
  binary[count++]=0;
  }
  else{
     while(dec>0){
       int a=dec%2;
       binary [count++]=a;
       dec/=2;
     }
  cout<<"The value of given number in binary is : ";</pre>
  for(i = count-1; i \ge 0; i--){
     cout<<br/>fil;
  }
  cout << endl;
  return 0; }
```

```
Enter the decimal number : 35
The value of given number in binary is : 100011
```