//Q1 - Write a function to print squares of the first 5 natural numbers..

```cpp
#include<iostream>

using namespace std;

int square(int num)
{
  int sq = (num*num);
   return (sq);
}
int main()
{
   for( int i=1;i<=5;i++)
   {
     cout<<"square is:"<<square(i)<<endl;
   }

   return 0;
}
```

//Q2 - Given radius of a circle. Write a function to print the area and circumference of the circle...

```cpp
#include<iostream>
```

```cpp
using namespace std;

double cir(int r)
{
    double cir=2*3.14*r;
    return (cir);
}
double ar(int r)
{
    double ar=3.14*r*r;
    return (ar);
}
int main()
{
    int r;
    cout<<"Enter the radius:";
    cin>>r;
    cout<<"area and circumference  of th circle is:"<<endl<<ar(r)<<"and"<<cir(r)<<endl;
    return 0;
}
```

//Q3 - Given the age of a person, write a function to check if the person is eligible to vote or not..

```cpp
#include<iostream>
```

```cpp
using namespace std;

bool vote(int age)
{
    if(age>=18)
    {
        return true;
    }

        return false;
    }

int main()
{
    int age;
    cout<<"Enter your age:";
    cin>>age;
    if(vote(age)==true)
    {
        cout<<"YES";
    }
    else{
        cout<<"NO";
    }
```

```cpp
    return 0;

}
```

//Q4 - Given two numbers a and b, write a program using functions to print all the odd numbers between them..

```cpp
#include<iostream>

using namespace std;


bool odd(int num)

{


    if(num%2!=0)

    {

      return true;

    }

       return false;


}

int main()

{

    int a,b;

    cout<<"Enter any two numbers:";

    cin>>a>>b;
```

```cpp
    for(int i=a;i<=b;i++)

    {

        if(odd(i)){

            cout<<i<<" ";

        }

    }

    return 0;

}
```

//Q5 - Given two numbers a and b, write a program to print all the prime numbers present between a and b..

```cpp
#include<iostream>

using namespace std;

bool prime(int num)

{

    for(int i=2;i<num;i++)

    {

        if(num%i==0)

        {

            return false;

        }


            return true;
```

```cpp
    }
}


int main()
{
    int a;
    int b;
    cout<<"Enter any two numbers:";
    cin>>a>>b;
    for(int i=a;i<=b;i++)
    {
        if(prime(i)){
        cout<<i<<" "<<endl;
        }
    }
    return 0;
}
```