1 .Write a function to print squares of n natural numbers.

Solution:

```
[] ← Share
 main.cpp
 1 #include <iostream>
                                                                                 /tmp/QGrfI5iQpY.o
                                                                                5
 2 using namespace std;
                                                                                1 1
 4 • void firstNSquares(int n) {
                                                                                2 4
 5 * for(int i = 1; i \le n; ++i) {
                                                                                3 9
 6 cout << i << " " << i*i << endl;
                                                                                4 16
 7 }
                                                                                5 25
 8 }
 9
10 - int main() {
                                                                                === Code Execution Successful ===
11 int n;
12 cin >> n;
13 firstNSquares(n);
14 return 0;
15 }
```

2. Write a function to take the radius of a circle as an argument and return its area.

Solution:

```
[] \bigcirc \triangleleft Share
 main.cpp
                                                                              Run
                                                                                          Output
 1 #include <iostream>
                                                                                        /tmp/T1k34gE4J0.o
                                                                                        5
 2 using namespace std;
                                                                                        78.5
 4 * float area(float n) {
 6 float area = 3.14*n*n;
                                                                                        === Code Execution Successful ===
 8 return area;
 9 }
 10
 11 - int main() {
 12 float r;
13 cin >> r;
14 float area2 = area(r);
15 cout<<area2<<endl;
 16 return 0;
 17 }
```

3. Given two numbers a and b, write a function to print all odd numbers between them.

Solution:

```
[] ७ 🖒 Share
main.cpp
                                                                     Run
                                                                              Output
1 #include <iostream>
                                                                             /tmp/EAWxirOKlz.o
2 using namespace std;
                                                                             3 14
                                                                             3 5 7 9 11 13
4 void print_odd_number(int x,int y) [{
5 • for(int i=x;i<=y;i++){
                                                                             === Code Execution Successful ===
6 +
      if(i%2==1){
         cout<<i<" ";
7
8
9 }
10 - int main() {
11 int a,b;
12 cin >> a>>b;
13 print_odd_number(a,b);
14 return 0;
15 }
```

4. Write a function to count the number of digits in a number and then print the square of this number.

Solution:

```
[] ⟨ ⟨ Share
                                                                       Run
                                                                                   Output
 main.cpp
 1 #include<iostream>
                                                                                  /tmp/8BX42fl7 IA.o
 2 using namespace std;
                                                                                  1234
                                                                                  16
 4 * int square(int n) {
 5 return n * n;
 6 }
                                                                                  === Code Execution Successful ===
 7 - int Digits(int x) {
 8 int ans = 0;
 9 - while(x > 0) {
10 ans++;
11 x /= 10;
12 }
13 return ans;
14 }
16 * int main() {
17 int n;
18 cin >> n;
19 int digits = Digits(n);
20 cout << square(digits) << endl;</pre>
21 return 0;
22 }
```

5. The minimum number of functions present in any C++ program is:

Solution: 1 (main function)

6. A function may be called more than once from any other function.

Solution: TRUE (we can call as many times that we want)

7. Can the same function name be used for different functions without any conflict?

Solution:

You can use the same name for different functions without any issues as long as the functions either have different argument types or a different number of arguments. However, if the functions differ only by their return type, they cannot share the same name because the compiler wouldn't be able to determine which function to call