

FUNCTIONS

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Q1 : Write a function to print squares of first n natural numbers, taking n as argument to the function

```
#include<iostream>
using namespace std;
void squarenat(int n){
    for(int i=1 ;i<=n;i++){
        cout<<i*i;
        cout<<endl;
    }
}

int main ( ) {
    int n;
    cin>>n;
    squarenat(n);
}
```

Q2 : Write a function that takes the radius of a circle as an argument and returns its area.

```
#include<iostream>
using namespace std;
int areacircle(int r){
    return 3.14*r*r;
}

int main(){
    int r;
    cin>>r;
    float area=areacircle( r);
    cout<<area;
}
```

Q3: Given two numbers a and b, write a function to print all odd numbers between them.

```
#include<iostream>
using namespace std;
void odd(int x,int y){

    for(int i=x; i<=y;i++){
        if(i%2!=0) cout<<i<<endl;
    }
}

int main(){
    int a,b;
    cin>>a>>b;
    odd(a,b)
}
```

Q4: Write a function to count the number of digits in a number and then print the square of this number.

```
#include<iostream>
using namespace std;
int countn(int n){
    int c=0;
    While(n>=0){
        n/=10;
        c++;
    }

    return c;
}
int main(){
    int n,count;
    cin>>n;
    count=countn(n);
    cout<<count;
    cout<<count*count;
}
```

Q5: The minimum number of functions present in any C++ program is:

0

1

2

Infinite

ANS) INFINITE

Q6: State True and False:

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

It is necessary for a function to return some value.

Ans)it is necessary if the return type is not void

Q7: Explore:

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

No same function name cannot be used for different functions without any conflict.