FUNCTION

1.
```
#include <iostream>
using namespace std;

void PrintHello(){
    cout<<"Hello"<<endl;
}

int main() {

       PrintHello();
    int a=10;
    int b=5;

    cout<<"Hello"<<endl;

    return 0;
}
```

2.
```
#include <iostream>
using namespace std;

int PrintHello(){
    cout<<"Hello"<<endl;
    return 3;
```

```
}

int main() {
    // Write C++ code here
  cout<<PrintHello()<<endl;

    return 0;
}
```

3.
```
#include <iostream>
using namespace std;

int sum(int a,int b){
   int s = a+b;
    return s;
}

int main() {
    // Write C++ code here
  cout<<sum(10,5)<<endl;

    return 0;
}
```

4.
```
#include <iostream>
using namespace std;
```

```
int minoftwo(int a,int b){   //parameters
   if(a<b){
      return a;
   }else{
      return b;
   }
}

int main() {
    cout<<minoftwo(10,5)<<endl;  //arguments

    return 0;
}
```

5.
```
#include <iostream>
using namespace std;

int sum(int n){
    int sum = 0;
    for(int i=1;i<=n;i++){
        sum+=i;
    }
    return sum;
}


int main() {
     cout<<sum(5)<<endl;
```

```
    return 0;
}
```

6.
```
#include <iostream>
using namespace std;

int fact(int n){
    int fact = 1;
    for(int i=1;i<=n;i++){
        fact*=i;
    }
    return fact;
}


int main() {
    // Write C++ code here
  cout<<fact(5)<<endl;

    return 0;
}
```

Pass by value : copy of arguments passed to a function

7.
```
#include <iostream>
```

```
using namespace std;

int sumofdigit(int num){
    int sumofdigit = 0;

    while(num>0){
     int lastdigit = num % 10;
    num = num/10;
    sumofdigit += lastdigit;

    }
    return sumofdigit;

}


int main() {
     cout<<"sumofdigit= "<<sumofdigit(523)<<endl;

    return 0;
}


8. #include <iostream>
using namespace std;

int factorial(int n){
    int fact = 1;

    for(int i=1;i<=n;i++){
```

```
        fact *= i;
    }

    return fact;
}

int nCr(int n, int r){
    int fact_n =factorial (n);
    int fact_r =factorial (r);
    int fact_nmr =factorial (n-r);

    return fact_n /(fact_r * fact_nmr);
}



int main() {
       int n=5;
    int r=3;
  cout<<"fact = "<<nCr(n,r) <<endl;

    return 0;
}
```