Parameter Passing Methods

Pass by value: Refund

• In pass by value actual parameters will not be modified if any changes are done to the formal parameters

Example:

```
void swap(int x , int y)
{
    int temp;
    temp = x;
    x = y;
    y = temp;
}
int main()
{
    int a ,b;
    a =10;
    b=20;
    swap(a,b);
    printf("%d %d", a ,b);
}
```

Call by address:

- Here the address of actual parameters are passed to formal parameter and formal parameters must be pointers
- Any changes done inside function will modify the actual parameters

```
void swap(int *x , int *y)
{
    int temp;
    temp = *x;
    *x = *y;
    *y = temp;
}
int main()
{
    int a,b;
    a =10;
    b=20;
    swap(&a,&b);
    printf("%d %d", a,b);
}
```

- One function cannot access value of another function directly but it can access it indirectly through pointers
- Thus call by address is a suitable mechanism for modifying actual parameters

but machine code is monolithic.

dont use it at heavy functions
here source code is procedural,

Call by reference:

References are part of c++ programming, its one of the useful and powerful mechanism of this language

 To make a function as call by reference we just need to add & in the parameters, these are the references

