## **Outline**

- Modifiers (short, long, signed, unsigned,) are used for integers.
- Some programming examples.

## Long ans short

If integers is 4 byte, short int may be 2 byte If integer is 4 byte, long int may be 8 byte

```
sizeof (short) <= sizeof(int) <= sizeof (long)
```

note: by defult int some\_vaariable\_name: Is singed integers variable

Unsigned int some\_variable\_name: allows only positive values.

Programming examples
If sizeof(long int) = 4 bytes
then sizeof(long long int) = 8 bytes

else

if sizeof(long int) = 8 bytes
then sizeof(long long int) = 8 bytes

## **SUMMARY**

1. sizeof (short) <= sizeof(long)

- 2. writing singed int some\_variable\_name; is equivalent to writing int some\_variable\_name;
- 3. %d is used to print "singed integer"
- 4. %u is used to print "unsiged integer"
- 5. %id is used to print "long integer" equivalent to " singed long integer"
- 6. %lu is used to print "unsinged long integer"
- 7. %Ild is used to print "long long integer"
- 8. %Ilu is used to print "unsigned longlong integer"