1) Types of programming languages:

1. <u>**High level programming languages**</u>
   - ❖ **Python**
   - ❖ **Java**
   - ❖ **PHP**
   - ❖ **C**
   - ❖ **JavaScript**
2. <u>**Low level programming languages**</u>
   - ❖ **Assembly**
   - ❖ **C**
   - ❖ **C++**
   - ❖ **Fortran**
3. <u>**scripted programming languages**</u>
   - ❖ **Python**
   - ❖ **JavaScript**
   - ❖ **Ruby**
   - ❖ **C**
   - ❖ **Java**
   - ❖ **CSS**
4. <u>**open programming languages**</u>
   - ❖ **Python**
   - ❖ **Java**
   - ❖ **MATLAB**
   - ❖ **PHP**
   - ❖ **C**
   - ❖ **Kotlin**
5. <u>**closed programming languages**</u>
   - ❖ **Java**
   - ❖ **C++**
   - ❖ **Visual Basic**

2) Clean code:

❖ **تسمية المتغيرات بشكل واضح و مختصر ومعبر عنه.**
❖ **تنظيم وتنسيق الكود.**
❖ **بساطة الكود ووضوحه.**
❖ **تجنب التكرار (عن طريق استخدام دالة).**

3) Range of data types:

C Basic Data Types	32-bit CPU		64-bit CPU	
	Size (bytes)	Range	Size (bytes)	Range
char	1	-128 to 127	1	-128 to 127
short	2	-32,768 to 32,767	2	-32,768 to 32,767
int	4	-2,147,483,648 to 2,147,483,647	4	-2,147,483,648 to 2,147,483,647
long	4	-2,147,483,648 to 2,147,483,647	8	-9,223,372,036,854,775,808- 9,223,372,036,854,775,807
long long	8	9,223,372,036,854,775,808- 9,223,372,036,854,775,807	8	9,223,372,036,854,775,808- 9,223,372,036,854,775,807
float	4	3.4E +/- 38	4	3.4E +/- 38
double	8	1.7E +/- 308	8	1.7E +/- 308