

# Basics of C language

---

1. Who found C language and why.
2. Uses of C today.
3. Data type in C.
4. Conditional statement .
5. Loops in C.

# Who found C language and why

---

- Who found C language
- Dennis M. Ritchie developed C in 1972 while at Bell Laboratories.
- Why C language was founded.
- C was developed to overcome the limitation of Programming like B and BCPL and write the UNIX operating system in a more portable, efficient, and flexible way.



# Uses of C today.

---

- Today, C is still widely used because of its speed, efficiency, and close control over hardware.
- C is mainly used for
  1. Operating system like windows, Linux and mac Os.
  2. Game engine and graphics library.
  3. Compiler and programming tool.
- 4. Its influence is also seen in modern languages like C++, Java, and Python.

# Data type in C.

---

- `int` → Stores integers
- `int age = 25;`
- `float` → Stores decimal numbers
- `float price = 99.99;`
- `char` → Stores single characters
- `char grade = 'A';`
- `double` → Stores large or precise decimal numbers
- `double pi = 3.1415926535;`

# Conditional statement

---

- If Statement – Executes code if condition is true

A=5, B=3;

If (a > b) {

    printf ("A is greater");

}

- If...else – Adds an alternative block if condition is false

if (a == b)

{   printf("Equal");}

Else

{   printf("Not Equal");}



- 
- Else if – Checks multiple conditions

```
int marks = 75;  
if (marks >= 90)  
{ printf("Grade A");}  
else if (marks >= 75)  
{ printf("Grade B");}  
else if (marks >= 60)  
{ printf("Grade C");}  
else  
{ printf("Fail");}
```

- 
- Switch statement – Selects code to run based on variable value

Int day = 3;

```
switch(day) {  
    case 1: printf("Monday"); break;  
    case 2: printf("Tuesday"); break;  
    case 3: printf("Wednesday"); break;  
    default: printf("Invalid day");  
}
```

# Loops in C

---

- For loop – Used when the number of iterations is known

```
int i =1;
```

```
For (i = 1; i <= 5; i++)
```

```
{
```

```
    printf ("%d\n", i);
```

```
}
```



- 
- While loop – Checks condition before each iteration

```
Int i = 1;
```

```
while (i <= 5) {
```

```
    printf(“%d\n”, i);
```

```
    i++;
```

```
}
```

- 
- Do-while loop – Executes at least once, checks condition after

```
Int i = 1;
```

```
do {
```

```
    printf(“%d\n”, i);
```

```
    i++;
```

```
} while (i <= 5);
```

# THANK YOU

---

Email: [roohabsabaliya12@gmail.com](mailto:roohabsabaliya12@gmail.com)