FRIDAY
JAN '20
17
WK-03 017-349

Char → signed → 1 byte → $\frac{2^8}{2} = \left[\frac{256}{2}\right]$
* −128 to 127
unsigned → 1 byte → 28
* 0 to 255.

Program

```
#include< >
int main()
{
int a=10;
}
```

test.c

Char System → Compiler → Number System

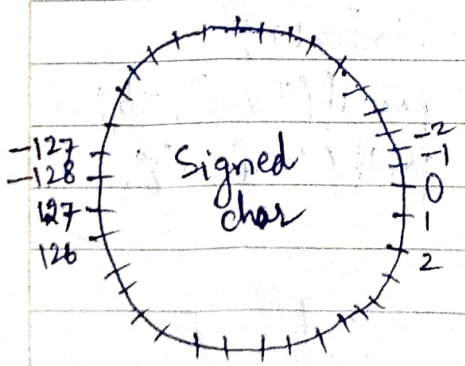
1111
1011
1101
1001
1010

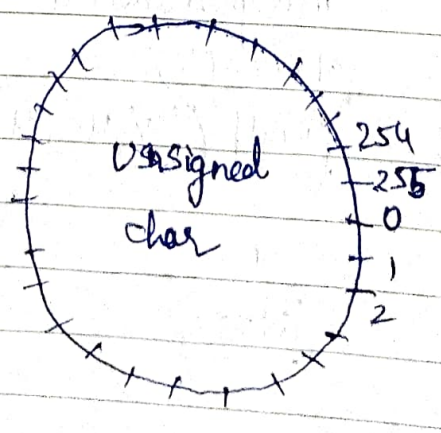
ASCII (American standard Code for Information Interchage) →

A − 65	a − 97	0 − 48	# − 35
B − 66	b − 98	1 − 49	space − 32
⋮	⋮	⋮	⋮
Z − 90	z = 122	9 − 57	⋮
26	26	10	150

26
26
10
150
2 | 2 < 256
8bit

• for every character, digit and special symbol is represented by constant integer value.






```
int main()
{
char ch='A';
printf("%c", ch);
printf("%d", ch);
}
```

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```
int main()
{
char ch = 258;
printf("%d", ch); → 2
printf("%c", ch);
```

↓ unknown character

ch
[2]

Q. WAP to display ASCII value of character.

```
#include<stdio.h>
int main()
{
 char ch;
 printf("Enter any character");
 scanf("%c", &ch);
 printf("ASCII value is : %d", ch);
 }
```

Q. WAP to Convert lower case to upper case.

```
ch = ch - 32;
```

Q. WAP to Convert any Upper case character in lower case.

```
#include<stdio.h>
int main()
{
 char ch;
printf("Enter any char in Upper Case");
scanf("%c", &ch);
 ch = ch + 32;
printf("\n Lower Case = %c", ch);
}
```

Q. WAP to Convert any digit character into integer.

```
#include<stdio.h>
int main()
{
 int x; char ch;
printf("Enter any digit char");
scanf("%c", &ch);
 x = ch - 48;
printf("\n Integer = %d", x);
}
```