

CHARACTER REPRESENTATION

KEYWORD	FORMAT	SIZE	RANGE
char	%c	1 byte	-128 to + 127

```
//  INITIALIZATION AND PRINT CHARACTER DATA
// AND  FIND  ASCII VALUE
#include<stdio.h>

int  main()
{
    char ch = 'A'; // INITIALAZATION //  int ch = 65 ;

    printf(" ch = %c \n", ch); // A
    printf(" ASCII VALUE = %d \n", ch); // 65
}

//  FIND  ASCII VALUE
#include<stdio.h>

int  main()
{
```

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```
int ch = 65 ; // INITIALAZATION
printf(" ch = %c \n", ch); // A
printf(" ASCII VALUE = %d \n", ch); // 65
}
```

CONVERSION

TYPE CONVERSION

(AUTOMATIC)

```
int a ;
float b = 4.5 ;
```

a = b ; ----- a = (int) b;

a = 4

a = 4

(implicit)

(explicit)

int <---> char

int <---> float

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// WAP FOR PRINT ASCII TABLE

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i = 0 ;
```

```
    printf(" ASCII TABLE \n");
```

```
    while( i <= 255 )
```

```
    {
```

```
        printf("%d = %c " , i,i );
```

```
        i++;
```

```
    }
```

```
}
```

// WAP FOR CHECK INPUT CHARACTER VOWEL OR CONSONANT .

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    char ch;
```

```
    printf(" ENTER CHARACTER \n ");
```

```
    scanf("%c",&ch);
```

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```
if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' )
{
    printf(" VOWELS \n ");
}
else
{
    printf(" CONSONANT \n ");
}
}
```

// WAP FOR CHECK INPUT CHARACTER IS CAPITAL LETTER ,SMALL LETTER ,DIGIT ,SPECIAL SYMBOLS.

```
#include<stdio.h>

int  main()
{
    char ch;

    printf(" ENTER CHARACTER \n ");

    scanf("%c",&ch);
```

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```
if( ch >= 'A' && ch <= 'Z')
{
    printf(" CAPITAL LETTERS \n ");
}
else if( ch >= 'a' && ch <= 'z')
{
    printf(" SMALL LETTERS \n ");
}
else if( ch >= '0' && ch <= '9')
{
    printf(" DIGITS \n ");
}
else if( ch == ' ')
{
    printf(" SPACE \n ");
}
else
{
    printf(" SPECIAL SYMBOLS\n");
}
}
```

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// WAP FOR CHECK INPUT CHARACTER IS CAPITAL LETTER ,SMALL LETTER,DIGIT ,SPECIAL SYMBOLS USING ASCII VALUE

```
#include<stdio.h>
```

```
int main()
```

```
{ char ch;
```

```
printf(" ENTER CHARACTER \n ");
```

```
scanf("%c",&ch);
```

```
if ( ch >= 65 && ch <= 90)
```

```
{ printf(" CAPITAL LETTERS \n ");
```

```
}
```

```
else if( ch >= 97 && ch <=122)
```

```
{ printf(" SMALL LETTERS \n ");
```

```
}
```

```
else if( ch >= 48 && ch <= 57)
```

```
{ printf(" DIGITS \n "); }
```

```
else if(ch == 32 )
```

```
{ printf(" SPACE \n "); }
```

```
else
```

```
{ printf(" SPECIAL SYMBOLS\n"); }
```

```
}
```