

# Input & Output

## A. Formatted IO - printf & scanf

### A.1 Formatted Output - printf

It takes text and values from within the program and sends it out onto the screen.

```
printf("%f is your weight\n",w);
```

In the above program :

"%f is your weight\n " is the control string

w is the variable to be printed

%f meaning that a floating point value is to be printed.

The number of conversion specifications and the number of variables following the control string must be same, and that the conversion character is correct for the type of the parameter.

## A.2 Formatted Input - scanf

scanf is used to get input from user and to store it in the specified variable(s).

```
scanf("%d",&x);
```

It read a decimal integer from the keyboard and store the value in the memory address of the variables x.

## A.3 Character Escape Sequences

There are several character escape sequence which can be used in place of a character constant or within a string.

\a alert(bell)

\b backspace

\f formfeed

\n newline

\r carriage return

\t tab

\v vertical tab

\\ backslash

\? question mark

\' quote



## B.Character IO- getchar & putchar

getchar and putchar are used for the input or output only one character.

getchar()

It returns an int which is either EOF(End of file) or the next character in the standard input stream.

putchar(c)

puts the character on the output stream.

```
int main()
```

```
{
```

```
int a;
```

```
a=getchar();
```

```
/* read and assign character to c */
```

```
putchar(a);
```

```
/*print c on the screen */
```

```
return 0;
```

```
}
```