**DataType**

Integer-

|  |  |  |
| --- | --- | --- |
| **DataType** | **Bytes Reqd.** | **Format specifier** |
| Integer | 2 | %d |
| Float | 4 | %f |
| char | 1 | %c |
| string | 1\*no.of char | %s |

Char=is a single alphabet e.g. ‘A’,’B’

String=collection of character.example. ‘SARA’

Void main()

{

int a;//declaration of variable

a=10;//initialization of value

a=80;

printf(“%d”,a);

|  |
| --- |
| 80 |

}

a

o/p

80

**Array**

Collection of homogeneous element.

Same datatype element.

Ex.

Int a[6];

Accepting an element for array

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 30 | 70 | 89 | 67 | 45 | 78.65 |
| A[0] | A[1] | A[2] | A[3] | A[4] | [5] |

A

A={30,70,89,67,45,78.65}

Display the array element

30 70 89 67 45 78

**Stack(LIFO)**

Last in First Out

**Application of Stack**

**Reverse the number/string**

Number 🡺478

|  |
| --- |
| 8 |
| 7 |
| 4 |

Reverse🡺874

String🡺ABC

|  |
| --- |
| C |
| B |
| A |

**Reverse🡺CBA**

**PostFix**

**A+[(B-C)/F]\*G**

A+[(­­­-BC-)/F]\*G

A+[A1/F]\*G

A+[A1F/]\*G

A+(A2\*G)

A+(A2G\*)

A+A3

AA3+

S=Substitute the value of a1,a2,a3

AA2G\*+

AA1F/G\*+

ABC-F/G\*+