

Pointers

- Pointer is a address variable that is meant for storing address of not data itself
- They are used for indirect access of data
- For a program to use heap memory , pointers is used
- To access heap memory and resources outside the main memory like internet, keyboard , monitor etc pointers is used
- Pointers are also used for parameter passing

Example :

```
Int main( )
```

```
{
```

```
Int a = 10 ;
```

- **data variable**

```
Int *p ;
```

- **declaration**

```
P = & a ;
```

- **Assignment / Initialisation**

```
printf( "% d " , a ) ;
```

```
printf( " %d " , * p ) ;
```

- **dereferencing**

```
}
```

- Accessing Heap memory through pointer

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

```
Int main( )
```

```
{
```

```
Int * p;
```

```
P = new int[5];
```

```
}
```