

## CS-1<sup>st</sup> yr

### C Program to Find the Largest of three numbers using Pointers

```
#include <stdio.h>
int main()
{
    int num1, num2, num3;
    int *p1, *p2, *p3;

    //taking input from user
    printf("Enter First Number: ");
    scanf("%d",&num1);
    printf("Enter Second Number: ");
    scanf("%d",&num2);
    printf("Enter Third Number: ");
    scanf("%d",&num3);

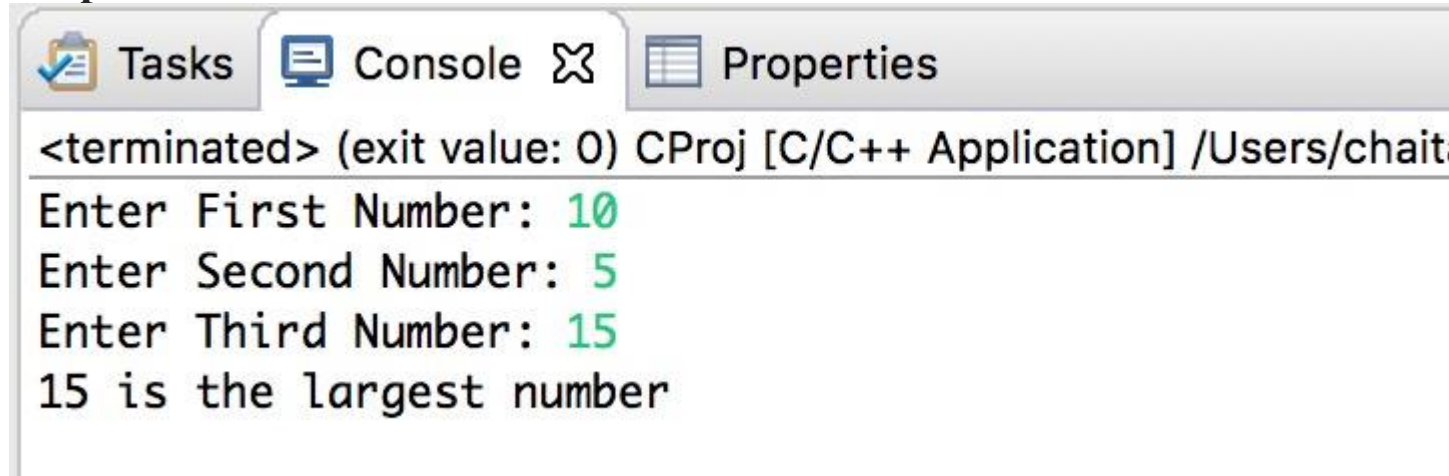
    //assigning the address of input numbers to pointers
    p1 = &num1;
    p2 = &num2;
    p3 = &num3;
    if(*p1 > *p2)
    {
        if(*p1 > *p3)
        {
            printf("%d is the largest number", *p1);
        }
    }
    else
    {
        printf("%d is the largest number", *p3);
    }
}
```

```

    }
}
else
{
    if(*p2 > *p3)
    {
        printf("%d is the largest number", *p2);
    }
    else
    {
        printf("%d is the largest number", *p3);
    }
}
return 0;
}

```

**Output:**



The screenshot shows a Windows-style application window titled "CProj [C/C++ Application] /Users/chaite". It has three tabs: "Tasks" (active), "Console", and "Properties". The "Console" tab displays the following output:

```

<terminated> (exit value: 0) CProj [C/C++ Application] /Users/chaite
Enter First Number: 10
Enter Second Number: 5
Enter Third Number: 15
15 is the largest number

```

C program to create, initialize and access a pointer variable

```

#include <stdio.h>

int main()
{
    //char variable

```

```

char ch;

//char pointer
char *pCh;

/* Initializing pointer variable with the
 * address of variable ch
 */
pCh = &ch;

//Assigning value to the variable ch
ch = 'A';

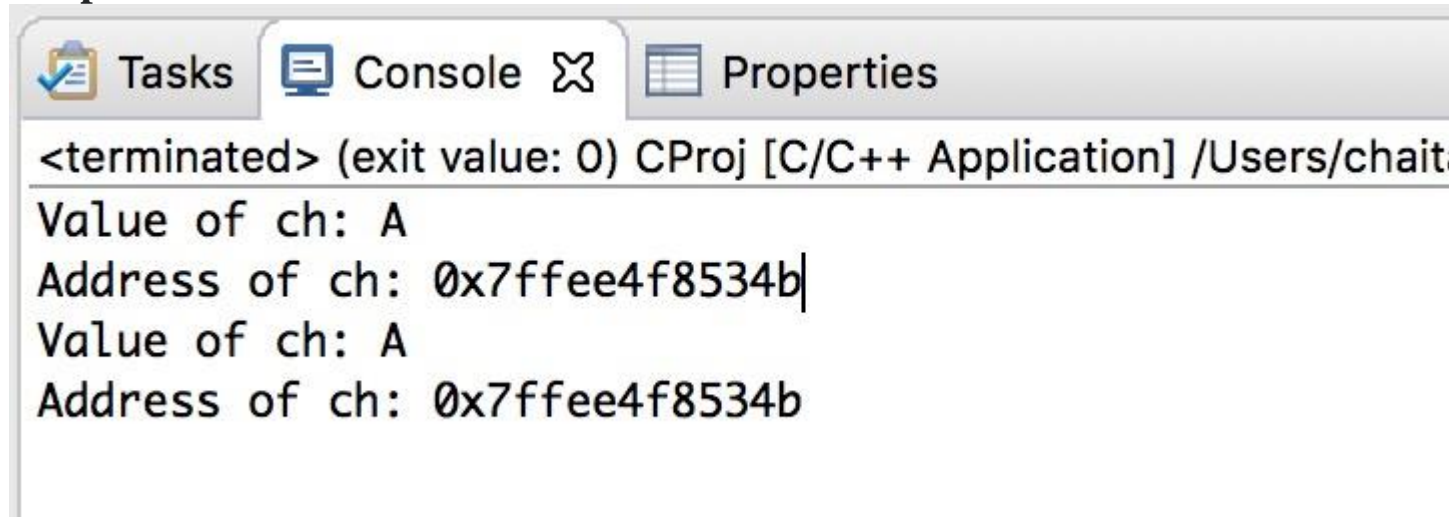
//access value and address of ch using variable ch
printf("Value of ch: %c\n",ch);
printf("Address of ch: %p\n",&ch);

//access value and address of ch using pointer variable pCh
printf("Value of ch: %c\n",*pCh);
printf("Address of ch: %p",pCh);

return 0;
}

```

**Output:**



```

<terminated> (exit value: 0) CProj [C/C++ Application] /Users/cha...
Value of ch: A
Address of ch: 0x7ffee4f8534b|
Value of ch: A
Address of ch: 0x7ffee4f8534b

```

