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Batch: T8

Assignment 2-C

CODE:

2-C: Bubble Sort

CODE:

```
#include<stdio.h>

void main()
{
    printf("Enter how many numbers: ");
    int no,i,temp;
    scanf("%d",&no);

    int arr[no];
    printf("\nEnter %d numbers ",no);
    for(i=0;i<no;i++)
    {
        scanf("%d",&arr[i]);
    }

    int j,k;
    for(j=0;j<no;j++)
    {
        for(k=0;k<no-j-1;k++)
        {
            if(arr[k]>arr[k+1])

                {
                    temp=arr[k];
                    arr[k]=arr[k+1];
                    arr[k+1]=temp;
                }
        }
    }

    printf("\nSorted Array: Ascending\n");
    for(i=0;i<no;i++)
    {
        printf("%d ",arr[i]);
    }

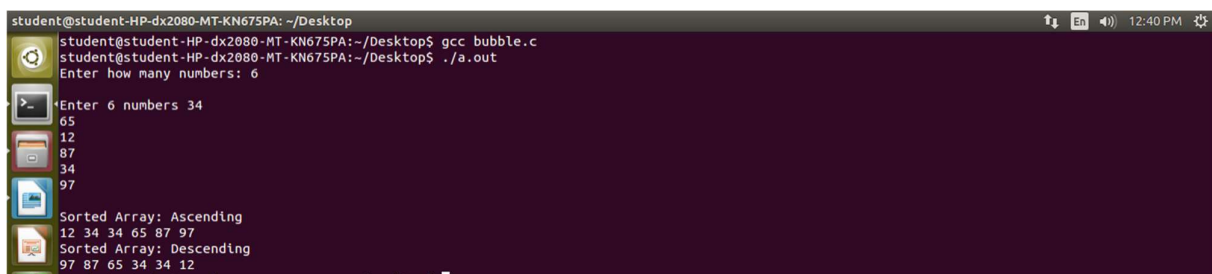
    for(j=0;j<no;j++)
```

```

    {
        for(k=0;k<no-j-1;k++)
        {
            if(arr[k]<arr[k+1])
            {
                temp=arr[k];
                arr[k]=arr[k+1];
                arr[k+1]=temp;
            }
        }
    }
}
printf("\nSorted Array: Descending\n");
for(i=0;i<no;i++)
{
    printf("%d ",arr[i]);
}
printf("\n");
}

```

OUTPUT:



```

student@student-HP-dx2080-MT-KN675PA: ~/Desktop
student@student-HP-dx2080-MT-KN675PA:~/Desktop$ gcc bubble.c
student@student-HP-dx2080-MT-KN675PA:~/Desktop$ ./a.out
Enter how many numbers: 6
Enter 6 numbers 34
65
12
87
34
97
Sorted Array: Ascending
12 34 34 65 87 97
Sorted Array: Descending
97 87 65 34 34 12

```