Asian University of Bangladesh

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Dept. of Computer Science and Engineering

Batch: 53rd

Course Code: CSE 2417

Course Title: Data Structure

Section: E

Instructor: Shomoita Jahid Mitin

Lab No: 2

Lab Topic: Linked List

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**Post Lab 2:**

#include <stdio.h>

#include <malloc.h>

#include <stdlib.h>

int main()

{

struct node

{

int num;

struct node \*ptr;

};

typedef struct node NODE;

NODE \*head, \*first, \*temp = 0;

int count = 0;

int choice = 1;

first = 0;

while (choice)

{

head = (NODE \*)malloc(sizeof(NODE));

printf("Enter the data item\n");

scanf("%d", &head-> num);

if (first != 0)

{

temp->ptr = head;

temp = head;

}

else

{

first = temp = head;

}

fflush(stdin);

printf("Do you want to continue(Type 0 or 1)?\n");

scanf("%d", &choice);

}

temp->ptr = 0;

/\* reset temp to the beginning \*/

temp = first;

printf("\n status of the linked list is\n");

while (temp != 0)

{

printf("%d=>", temp->num);

count++;

temp = temp -> ptr;

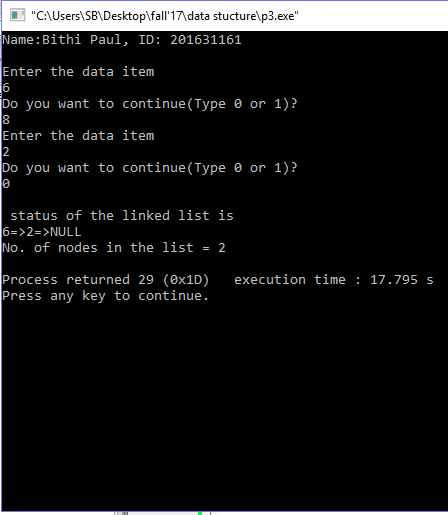
}

printf("NULL\n");

printf("No. of nodes in the list = %d\n", count)

}

**Output:**

****