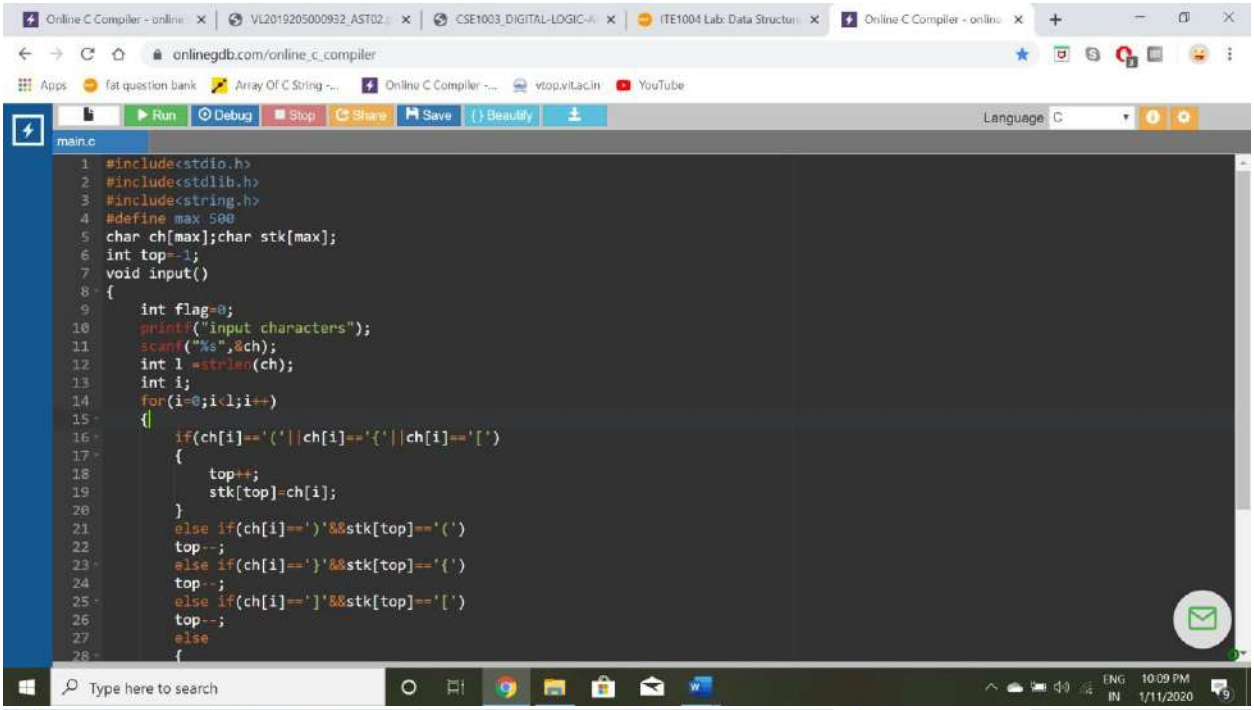
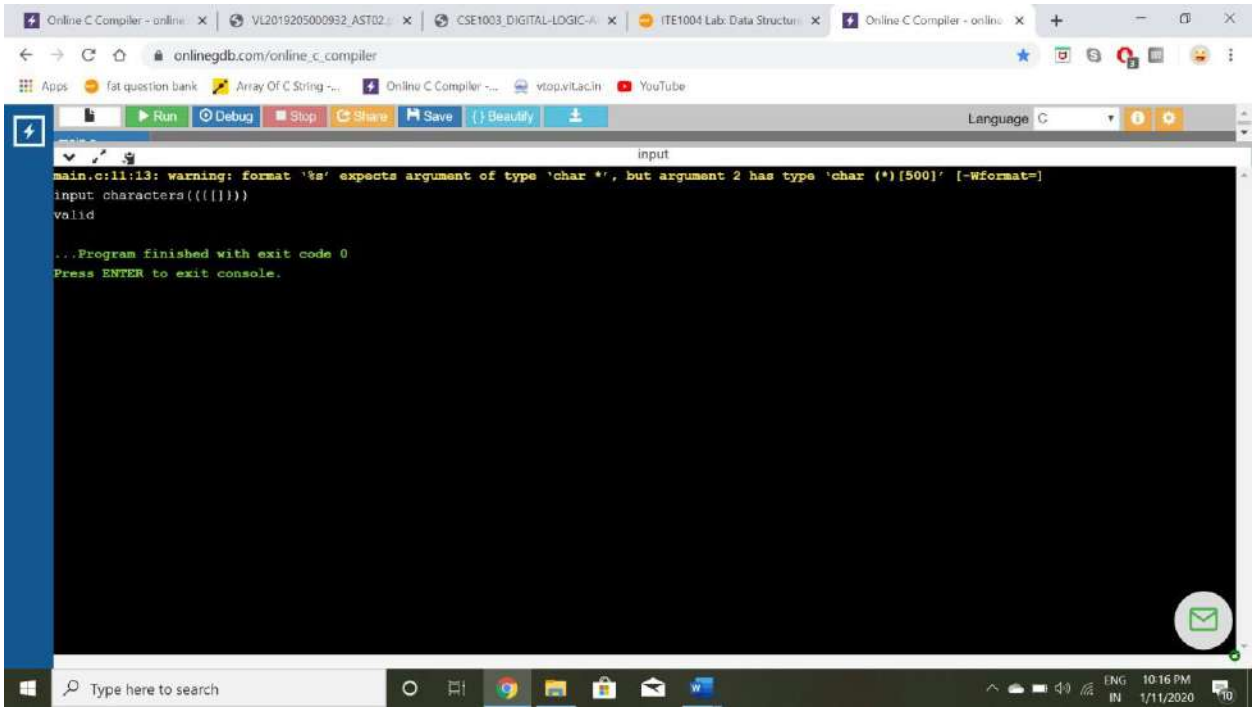
1. Write a C/C++ program Using stack, to check whether the given parenthesized expression is balanced or not.



```c
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#define max 500
char ch[max];char stk[max];
int top=-1;
void input()
{
    int flag=0;
    printf("input characters");
    scanf("%s",&ch);
    int l =strlen(ch);
    int i;
    for(i=0;i<l;i++)
    {
        if(ch[i]=='('||ch[i]=='{'||ch[i]=='[')
        {
            top++;
            stk[top]=ch[i];
        }
        else if(ch[i]==')'&&stk[top]=='(')
        top--;
        else if(ch[i]=='}'&&stk[top]=='{')
        top--;
        else if(ch[i]==']'&&stk[top]=='[')
        top--;
        else
        {
            printf("invalid");flag = 1;break;
        }
    }
    if(flag==0)
    printf("valid");
}
int main()
{
    input();
    return 0;
}
```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{} Beautify
Language C
input
main.c:11:13: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[500]' [-Wformat=]
input characters(((([])))
valid
...Program finished with exit code 0
Press ENTER to exit console.
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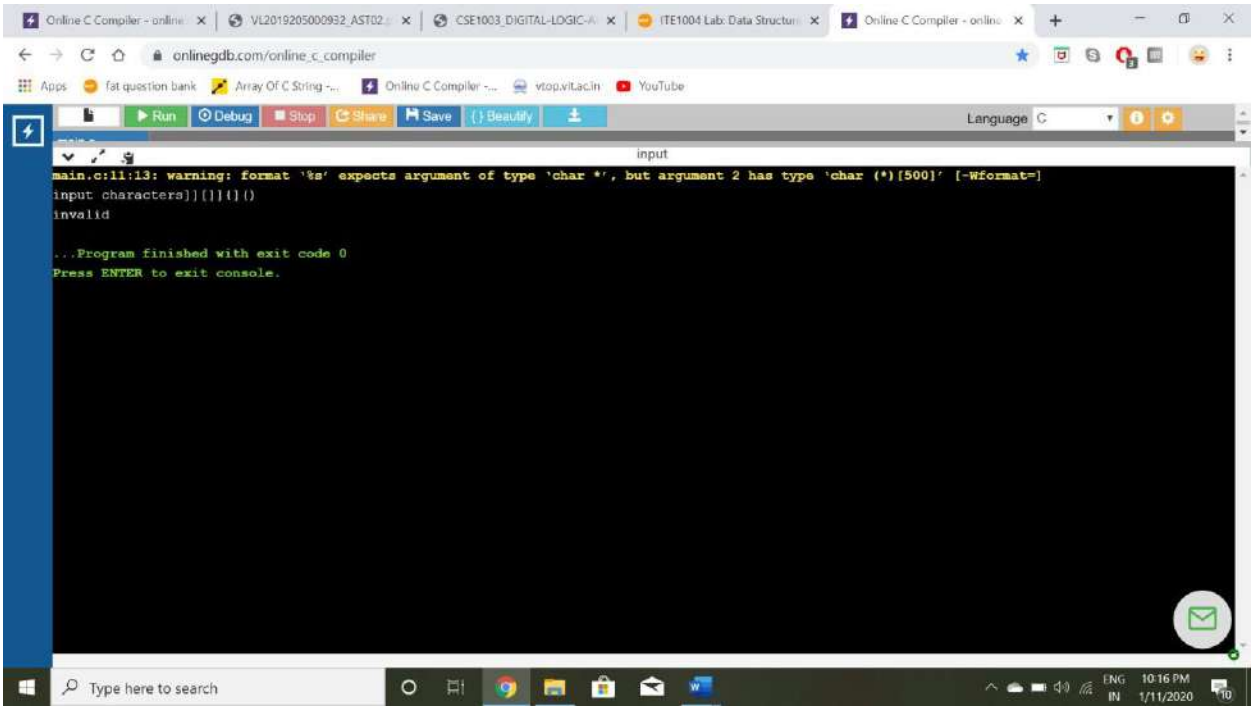
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{} Beautify
Language C
input
main.c:11:13: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[500]' [-Wformat=]
input characters]][][]()
invalid
...Program finished with exit code 0
Press ENTER to exit console.
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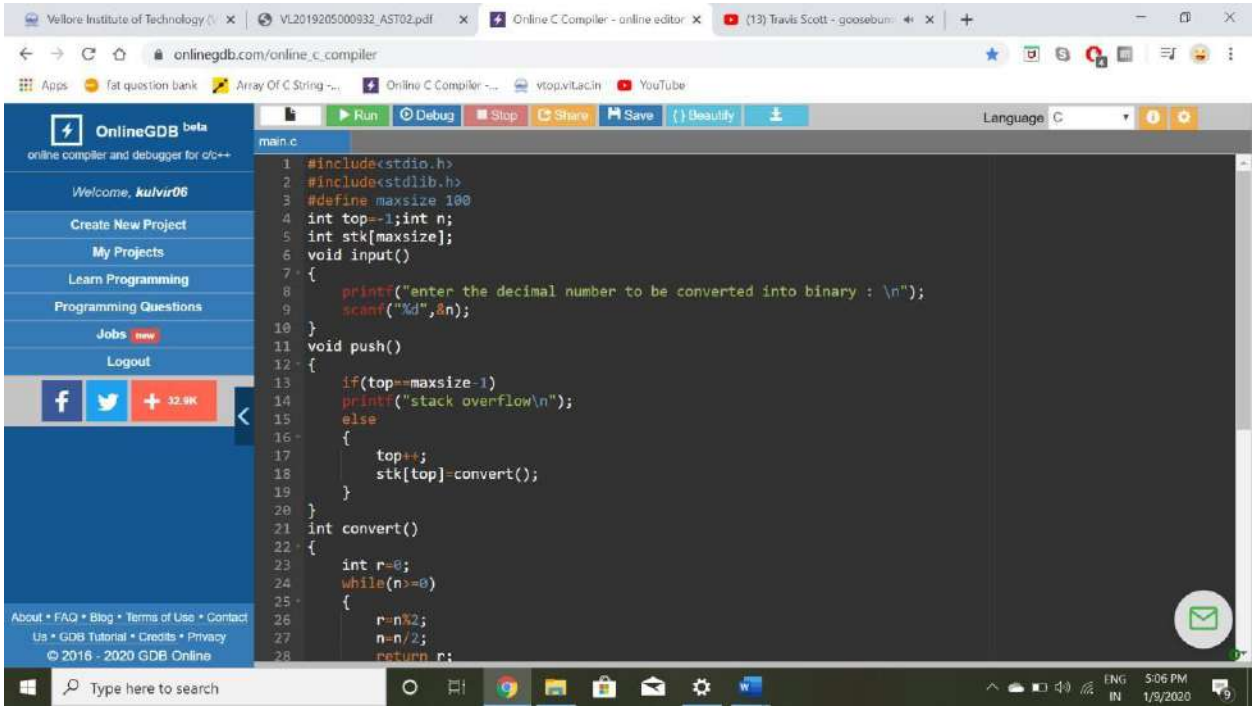
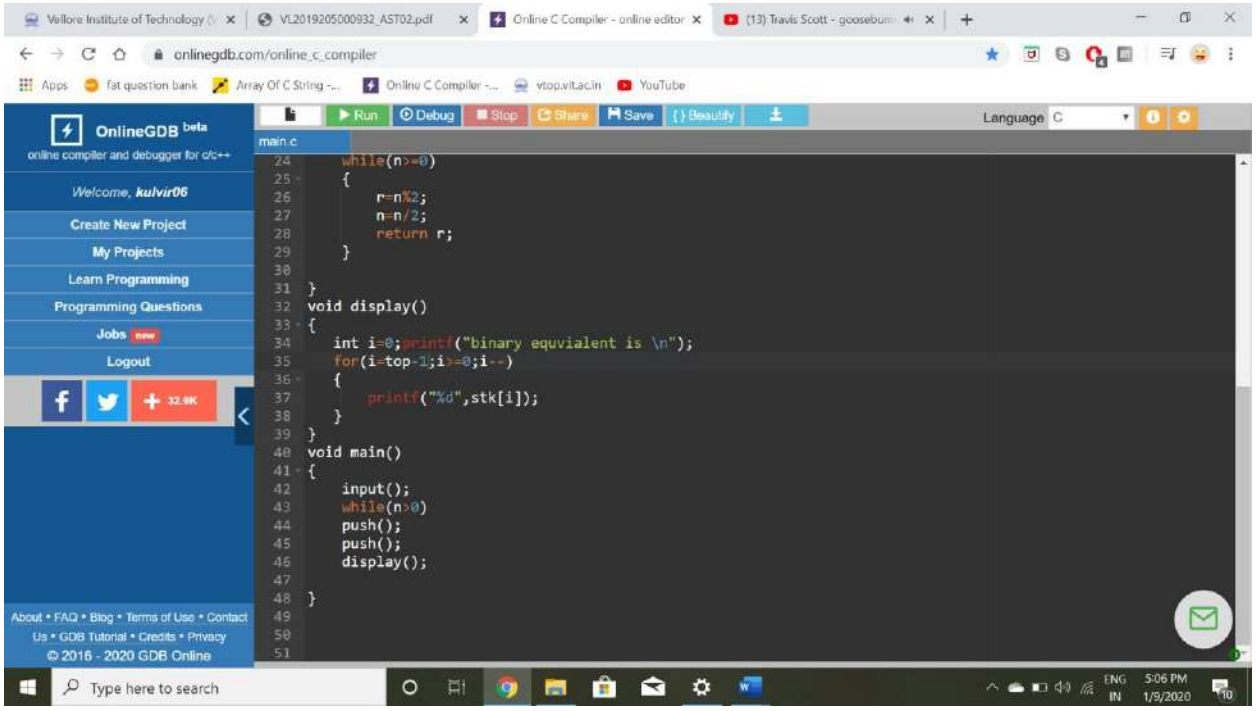
2. Convert the given decimal number to the corresponding binary number. Use the stack data structure to perform the conversion.



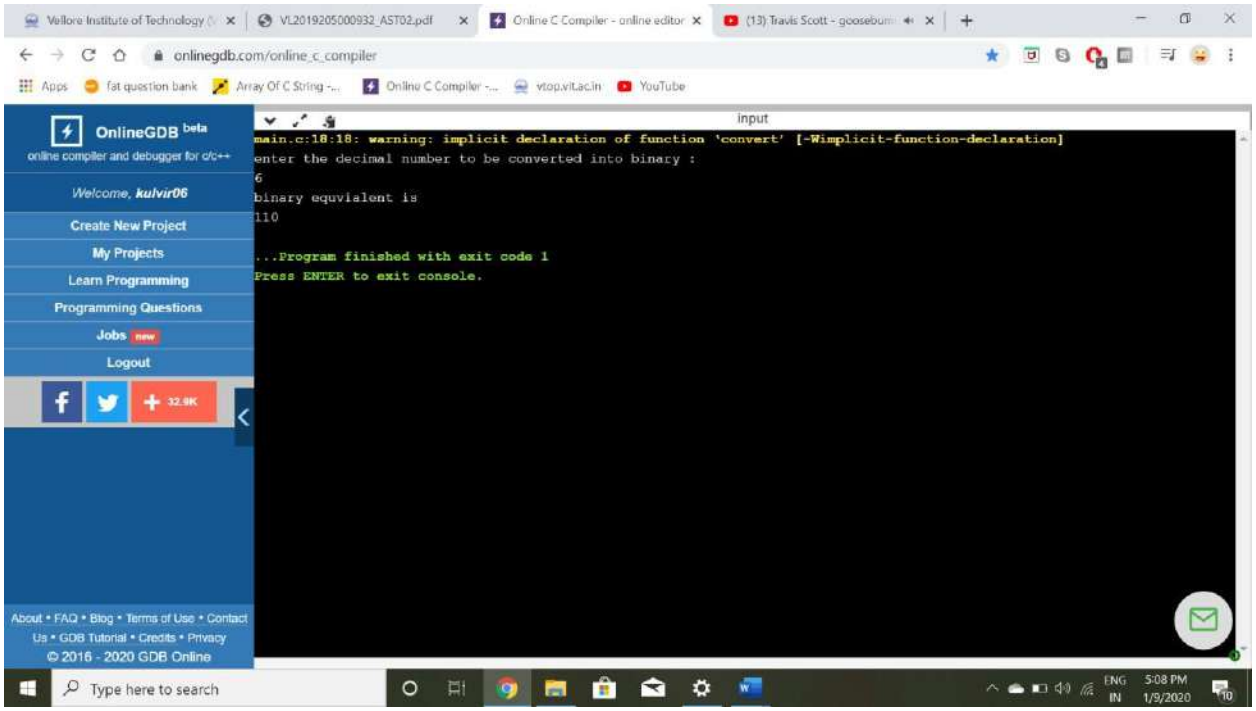
```c
#include<stdio.h>
#include<stdlib.h>
#define maxsize 100
int top=-1;int n;
int stk[maxsize];
void input()
{
    printf("enter the decimal number to be converted into binary : \n");
    scanf("%d",&n);
}
void push()
{
    if(top==maxsize-1)
    printf("stack overflow\n");
    else
    {
        top++;
        stk[top]=convert();
    }
}
int convert()
{
    int r=0;
    while(n>=0)
    {
        r=n%2;
        n=n/2;
        return r;
```



```c
    while(n>=0)
    {
        r=n%2;
        n=n/2;
        return r;
    }

}
void display()
{
   int i=0;printf("binary equvialent is \n");
   for(i=top-1;i>=0;i--)
   {
       printf("%d",stk[i]);
   }
}
void main()
{
    input();
    while(n>0)
    push();
    push();
    display();

}
```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input
main.c:18:18: warning: implicit declaration of function 'convert' [-Wimplicit-function-declaration]
enter the decimal number to be converted into binary :
6
binary equvialent is
110
...Program finished with exit code 1
Press ENTER to exit console.
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ENG
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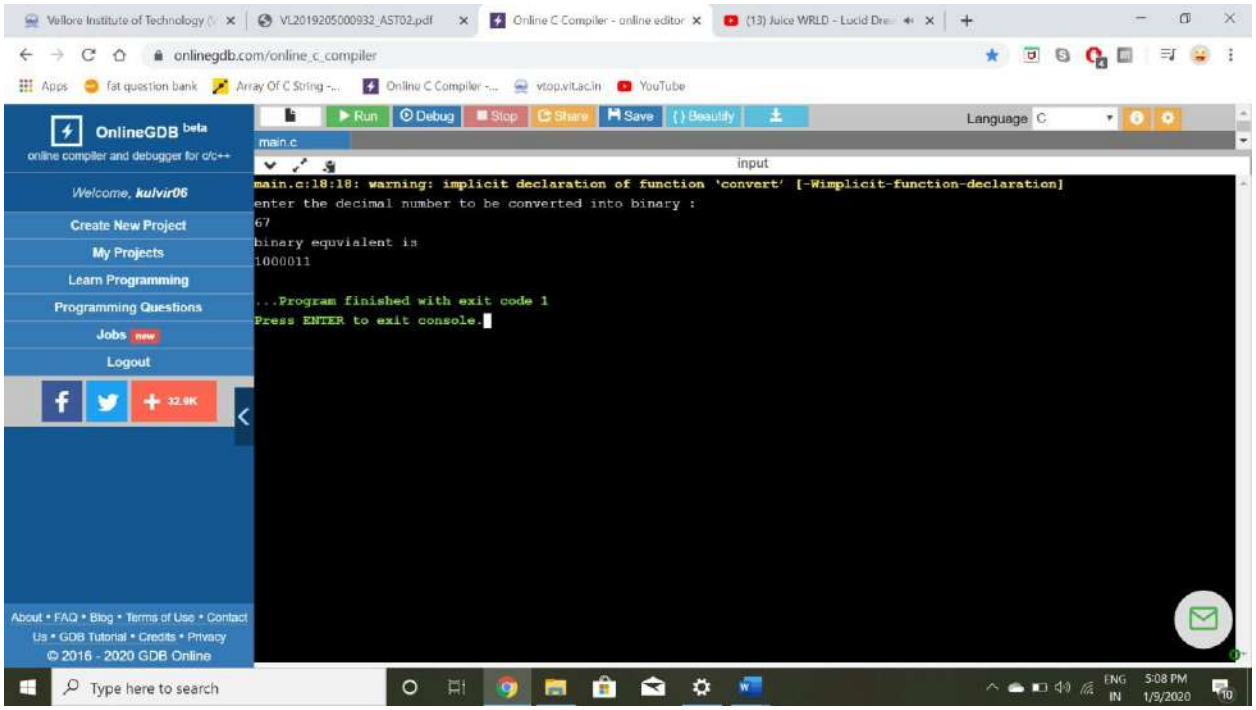
1/9/2020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input
main.c:18:18: warning: implicit declaration of function 'convert' [-Wimplicit-function-declaration]
enter the decimal number to be converted into binary :
67
binary equvialent is
1000011
...Program finished with exit code 1
Press ENTER to exit console.
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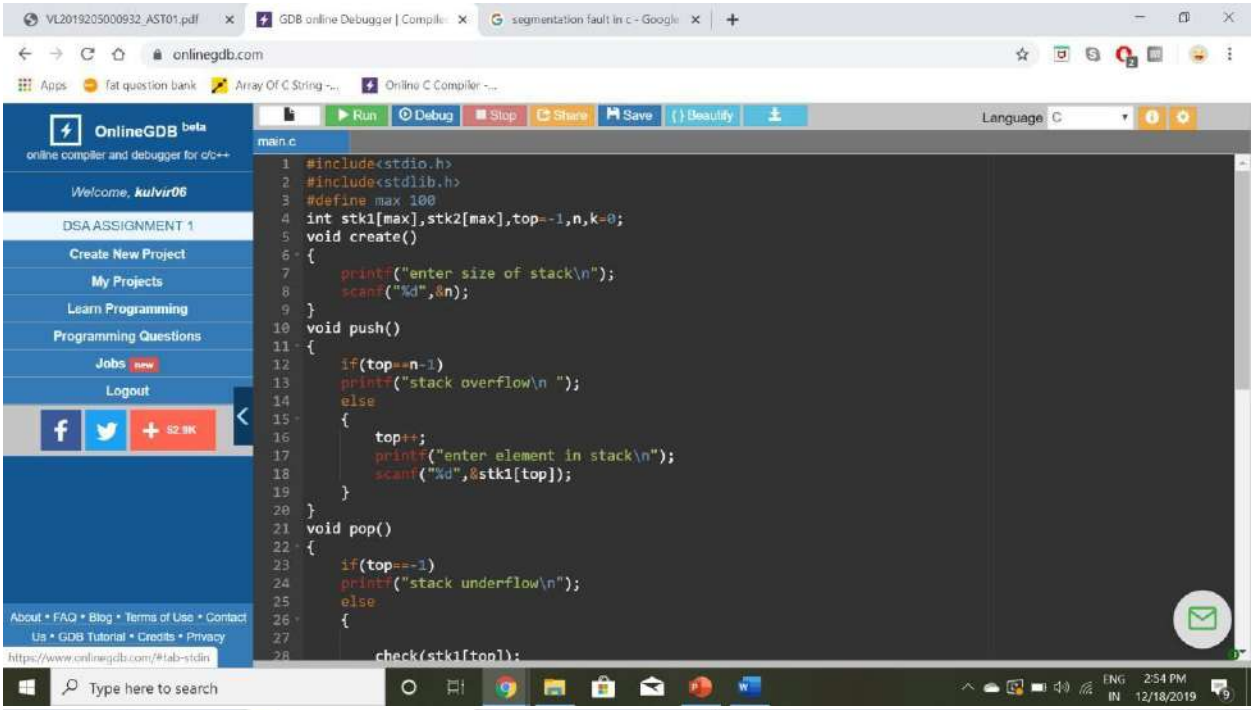
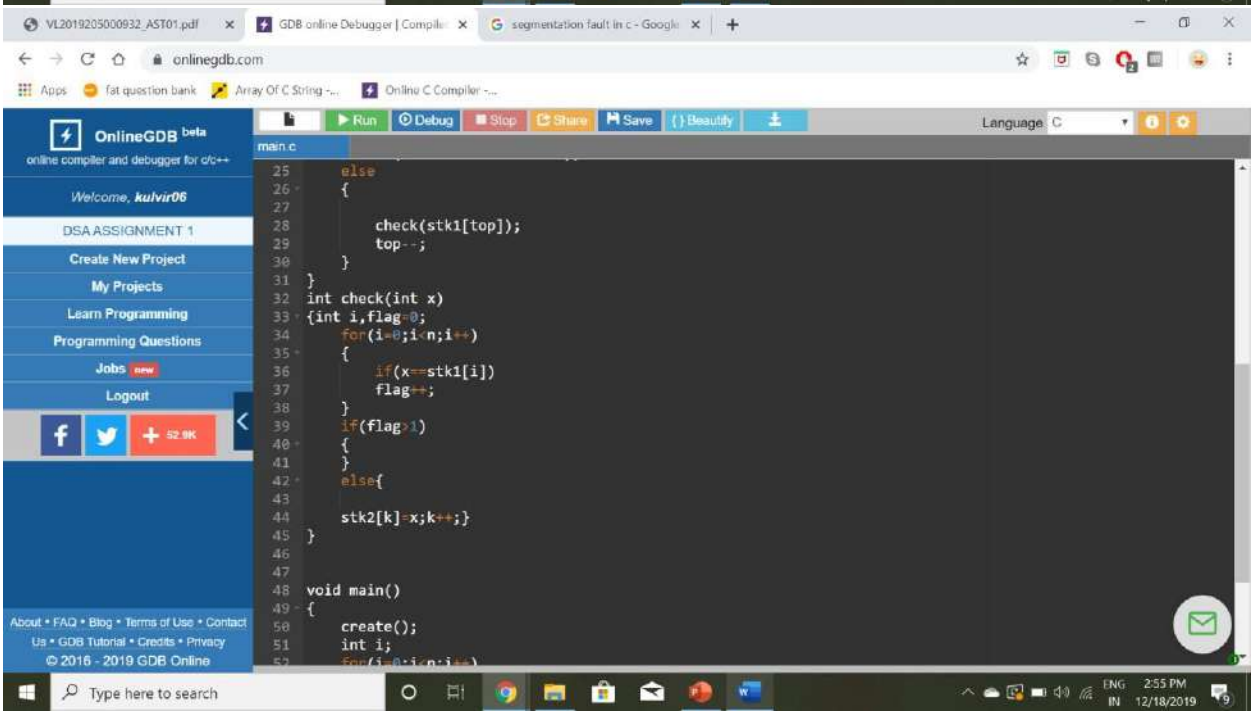
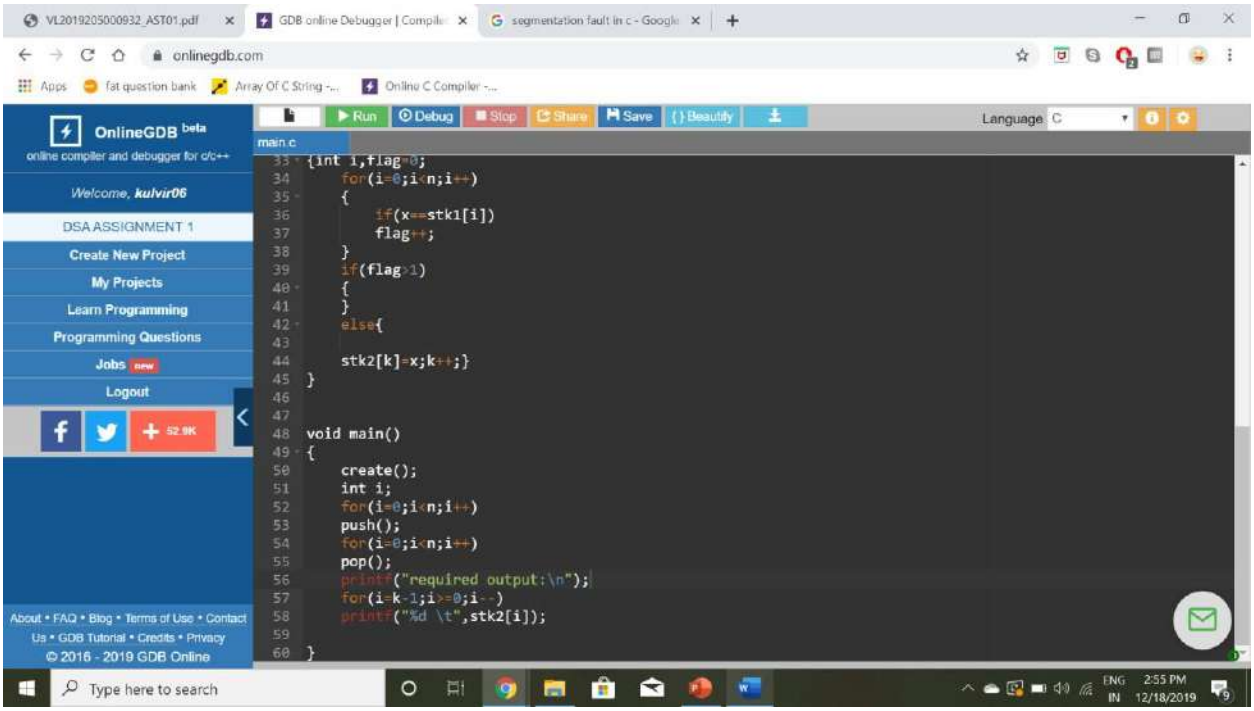
3. Write a program to eliminate duplicates in a stack, including the original value. For eg., 2 3 5 9 9 5 7 8 2 reduces to 3 7 8



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{} Beautify
Language C
main.c
{int i,flag=0;
for(i=0;i<n;i++)
{
if(x==stk1[i])
flag++;
}
if(flag>1)
{
}
else{
stk2[k]=x;k++;}
}
void main()
{
create();
int i;
for(i=0;i<n;i++)
push();
for(i=0;i<n;i++)
pop();
printf("required output:\n");
for(i=k-1;i>=0;i--)
printf("%d \t",stk2[i]);
}
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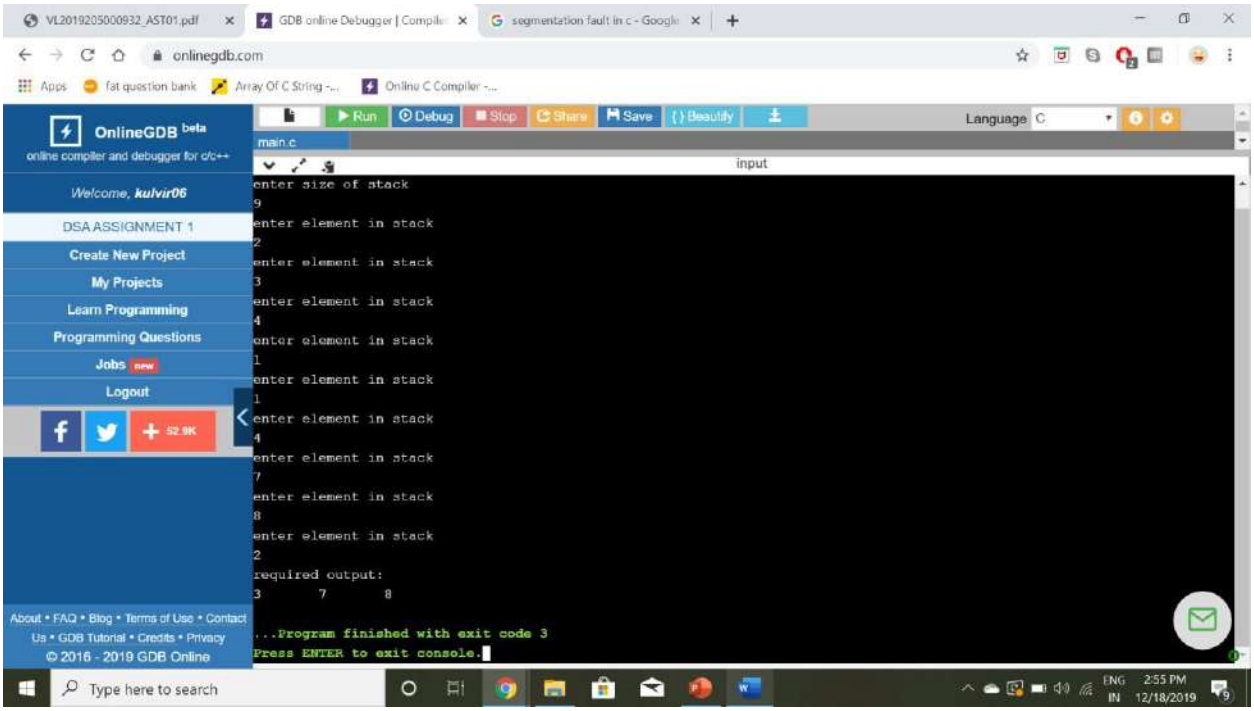
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Run
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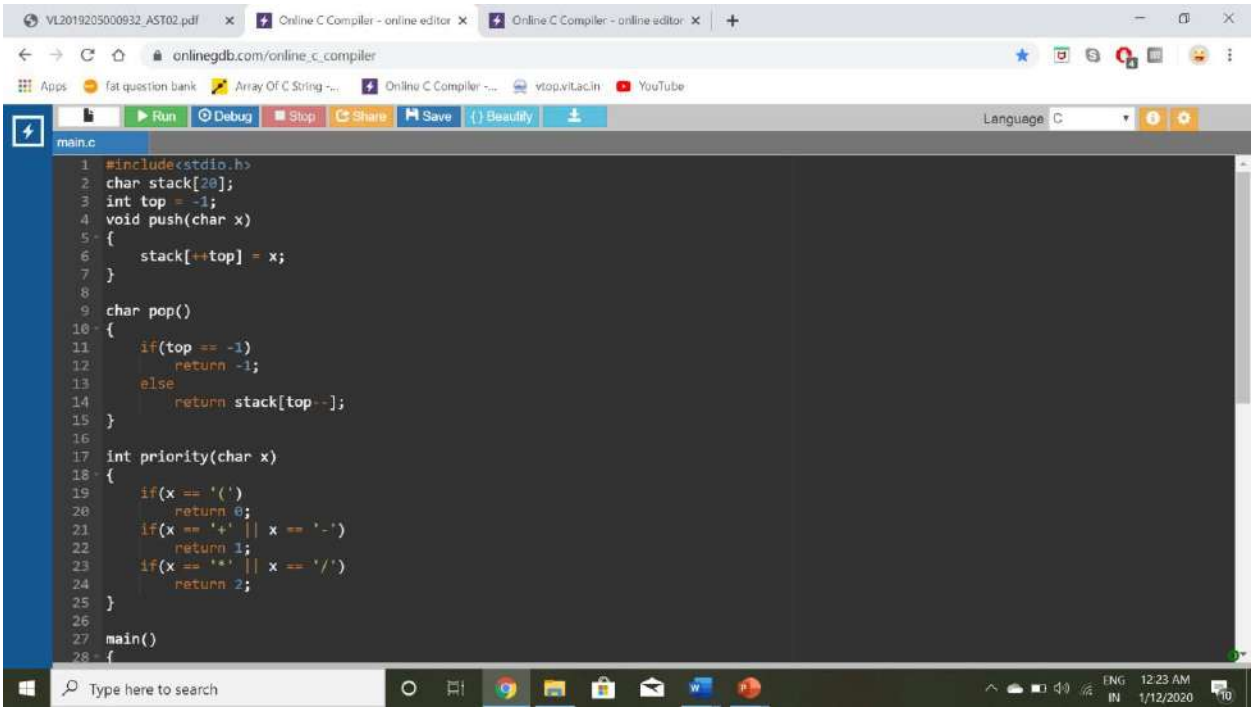
Save
{} Beautify
Language C
main.c
input
enter size of stack
9
enter element in stack
2
enter element in stack
3
enter element in stack
4
enter element in stack
1
enter element in stack
1
enter element in stack
4
enter element in stack
7
enter element in stack
8
enter element in stack
2
required output:
3 7 8
...Program finished with exit code 3
Press ENTER to exit console.
Type here to search
ENG IN 2:55 PM 12/18/2019

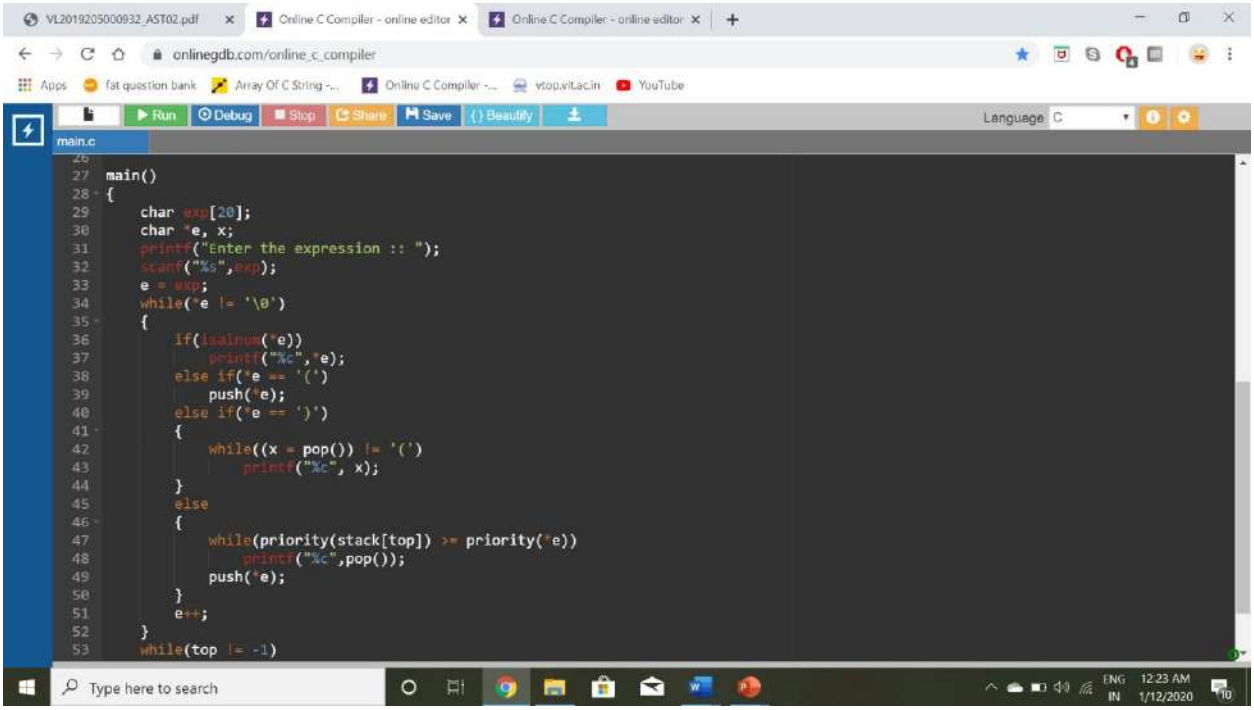
4. WAP to convert the following expression to its postfix equivalent using stack

a. ((A + B)* D) ^ (E – F)

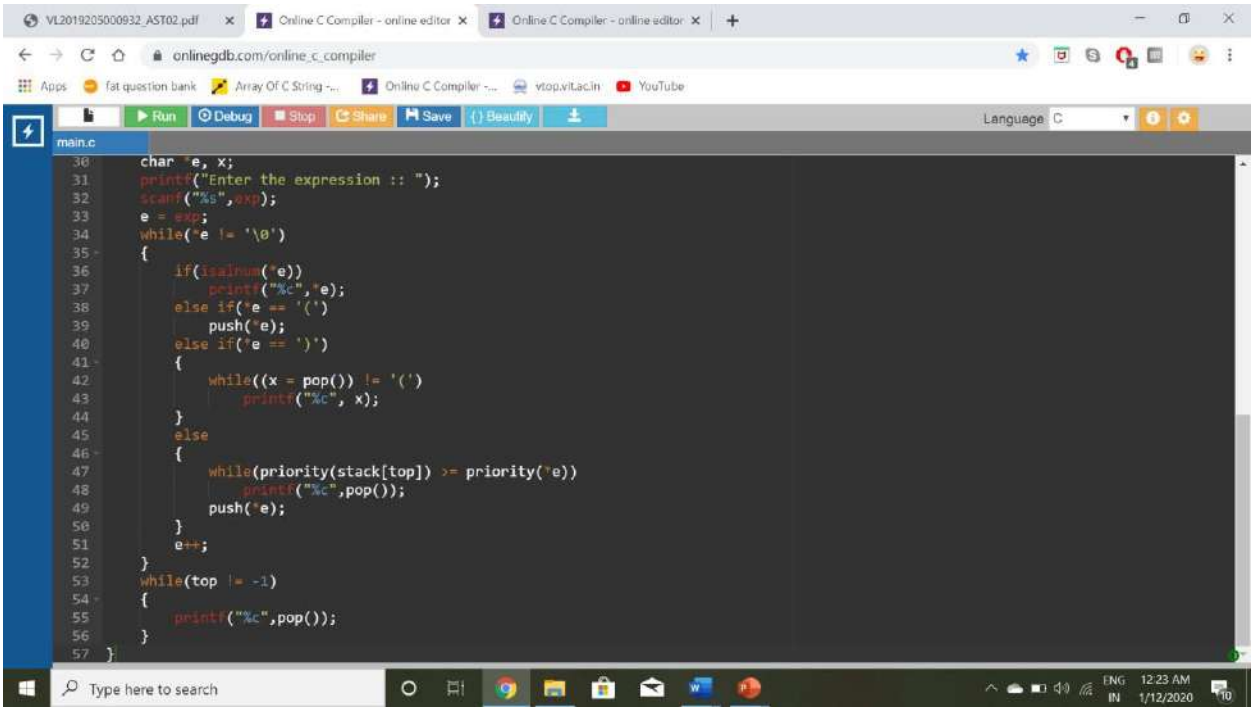
b. A + (B * C – (D / E ^ F) * G) * H Where ^: raise to the power



```c
#include<stdio.h>
char stack[20];
int top = -1;
void push(char x)
{
    stack[++top] = x;
}

char pop()
{
    if(top == -1)
        return -1;
    else
        return stack[top--];
}

int priority(char x)
{
    if(x == '(')
        return 0;
    if(x == '+' || x == '-')
        return 1;
    if(x == '*' || x == '/')
        return 2;
}

main()
{
```

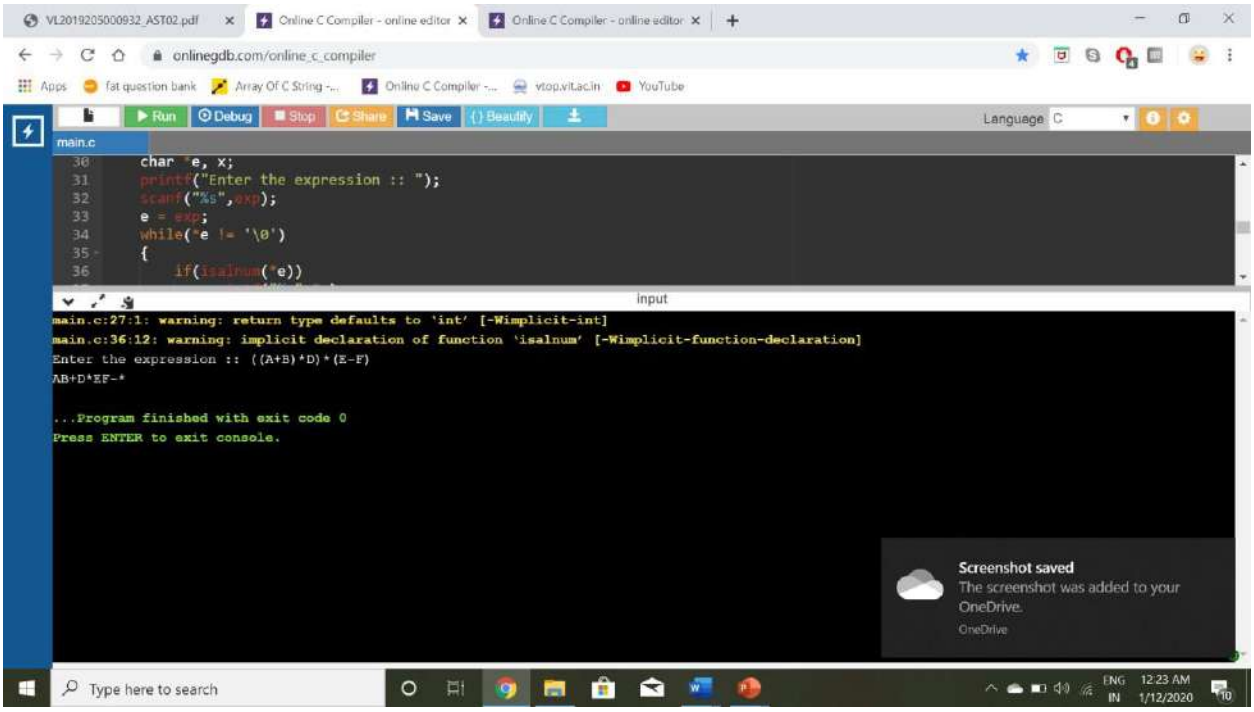


```c
main()
{
    char exp[20];
    char *e, x;
    printf("Enter the expression :: ");
    scanf("%s",exp);
    e = exp;
    while(*e != '\0')
    {
        if(isalnum(*e))
            printf("%c",*e);
        else if(*e == '(')
            push(*e);
        else if(*e == ')')
        {
            while((x = pop()) != '(')
                printf("%c", x);
        }
        else
        {
            while(priority(stack[top]) >= priority(*e))
                printf("%c",pop());
            push(*e);
        }
        e++;
    }
    while(top != -1)
```



```
char *e, x;
printf("Enter the expression :: ");
scanf("%s",exp);
e = exp;
while(*e != '\0')
{
    if(isalnum(*e))
        printf("%c",*e);
    else if(*e == '(')
        push(*e);
    else if(*e == ')')
    {
        while((x = pop()) != '(')
            printf("%c", x);
    }
    else
    {
        while(priority(stack[top]) >= priority(*e))
            printf("%c",pop());
        push(*e);
    }
    e++;
}
while(top != -1)
{
    printf("%c",pop());
}
}
```

a>



```
char *e, x;
printf("Enter the expression :: ");
scanf("%s",exp);
e = exp;
while(*e != '\0')
{
    if(isalnum(*e))
input
main.c:27:1: warning: return type defaults to 'int' [-Wimplicit-int]
main.c:36:12: warning: implicit declaration of function 'isalnum' [-Wimplicit-function-declaration]
Enter the expression :: ((A+B)*D)*(E-F)
AB+D*EF-*

...Program finished with exit code 0
Press ENTER to exit console.
```

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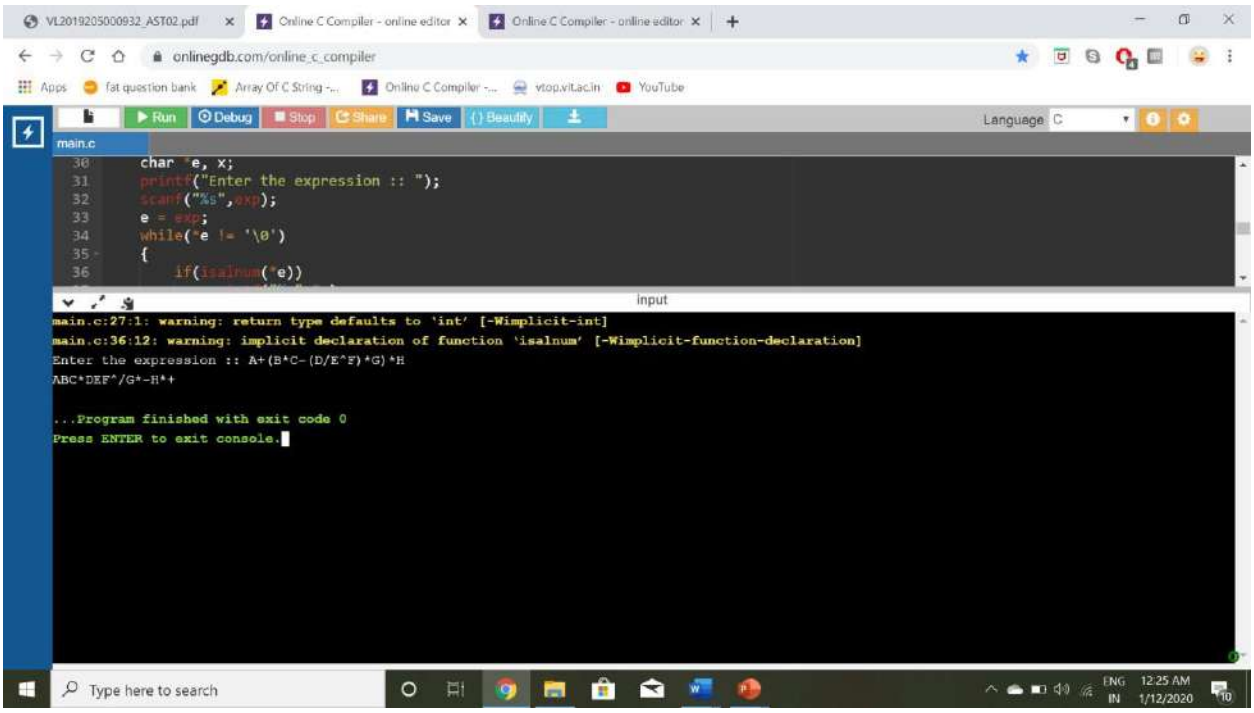
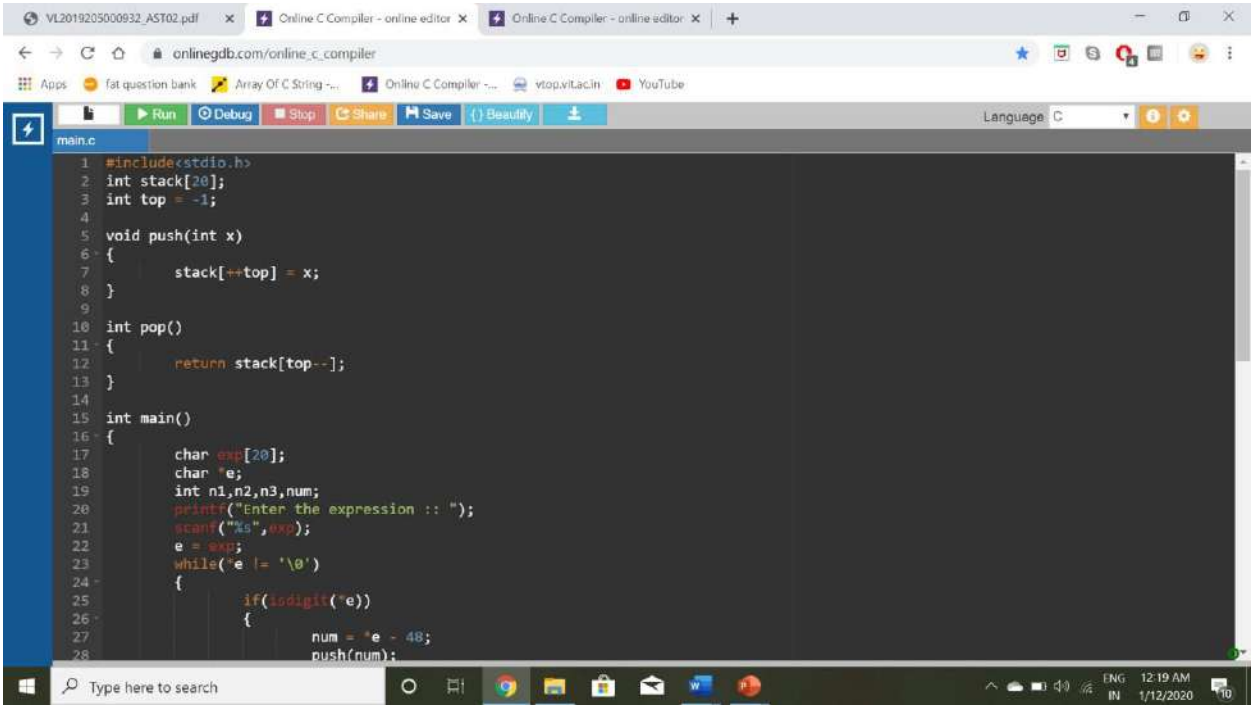
b>

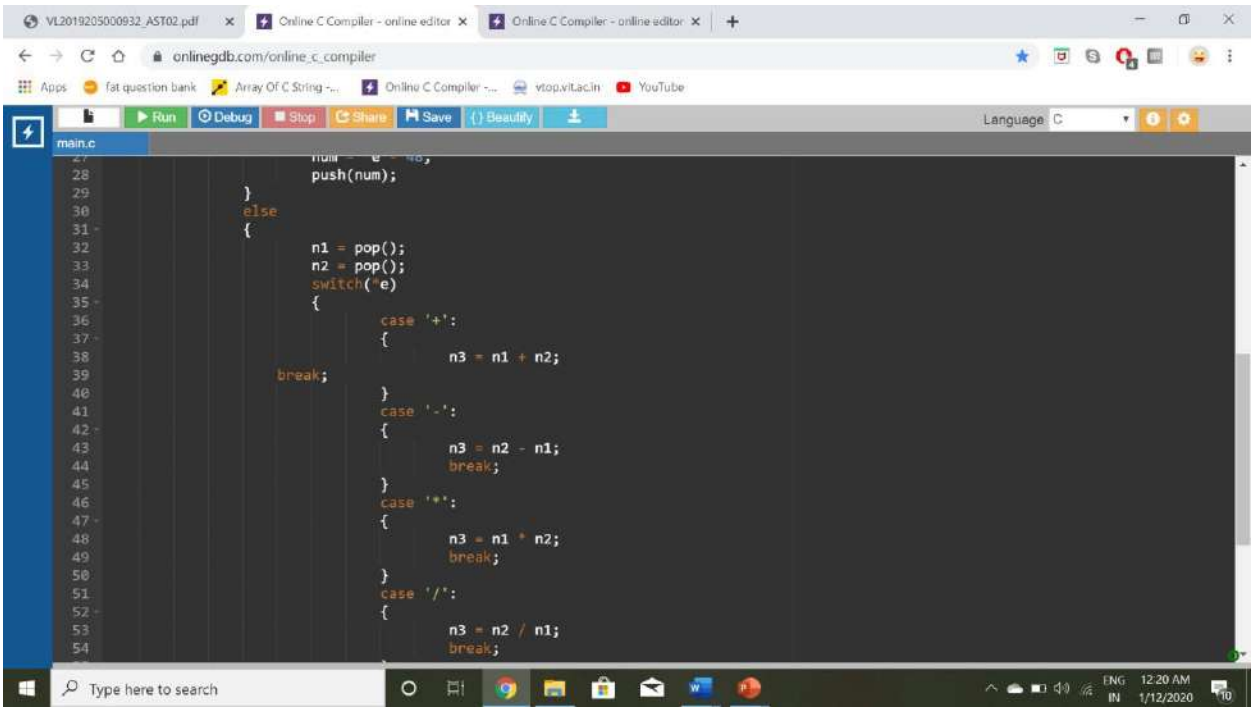


5> Implement a program to evaluate any given postfix expression. Test your program for the evaluation of the equivalent postfix form of the expression

(- (A*B)/D) ↑ C + E – F * H * I)

for A = 1, B = 2, D = 3, C = 14, E = 110, F = 220, H = 16.78, I = 364.621.

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{} Beautify
Language C
main.c
push(num);
}
else
{
n1 = pop();
n2 = pop();
switch(*e)
{
case '+':
{
n3 = n1 + n2;
break;
}
case '-':
{
n3 = n2 - n1;
break;
}
case '*':
{
n3 = n1 * n2;
break;
}
case '/':
{
n3 = n2 / n1;
break;
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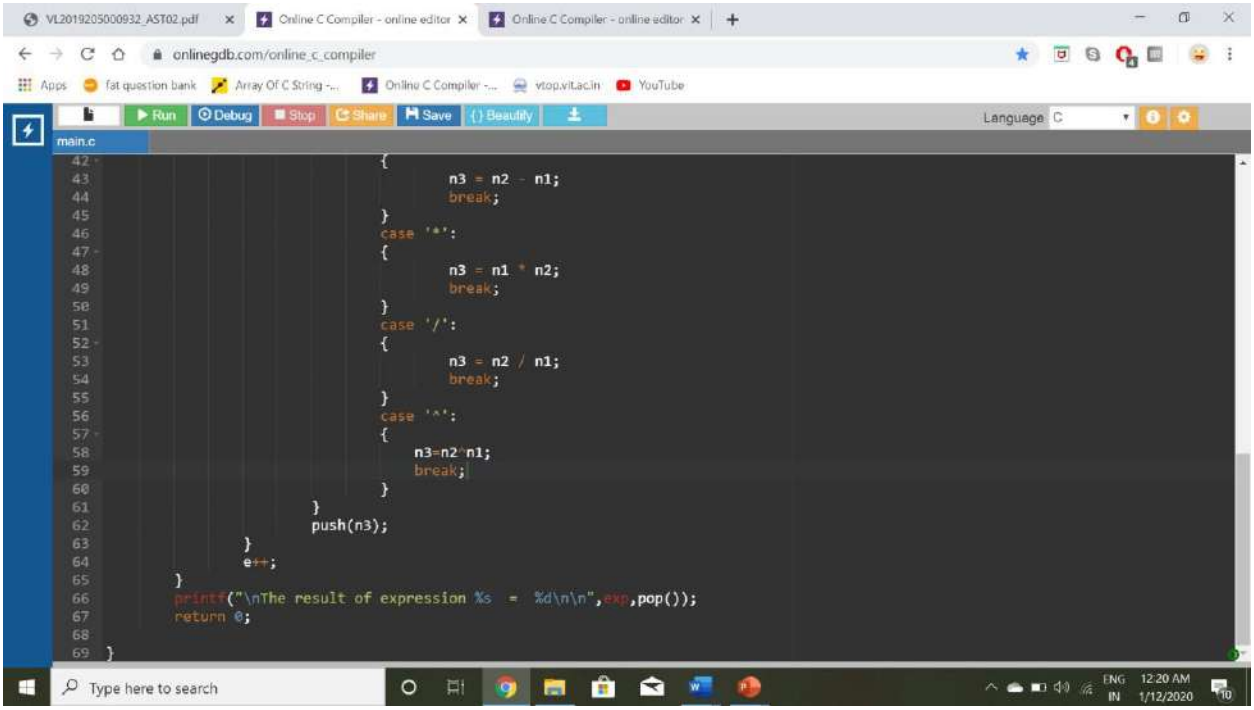
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{} Beautify
Language C
main.c
{
n3 = n2 - n1;
break;
}
case '*':
{
n3 = n1 * n2;
break;
}
case '/':
{
n3 = n2 / n1;
break;
}
case '^':
{
n3=n2^n1;
break;
}
}
push(n3);
}
e++;
}
printf("\nThe result of expression %s = %d\n\n",exp,pop());
return 0;
}
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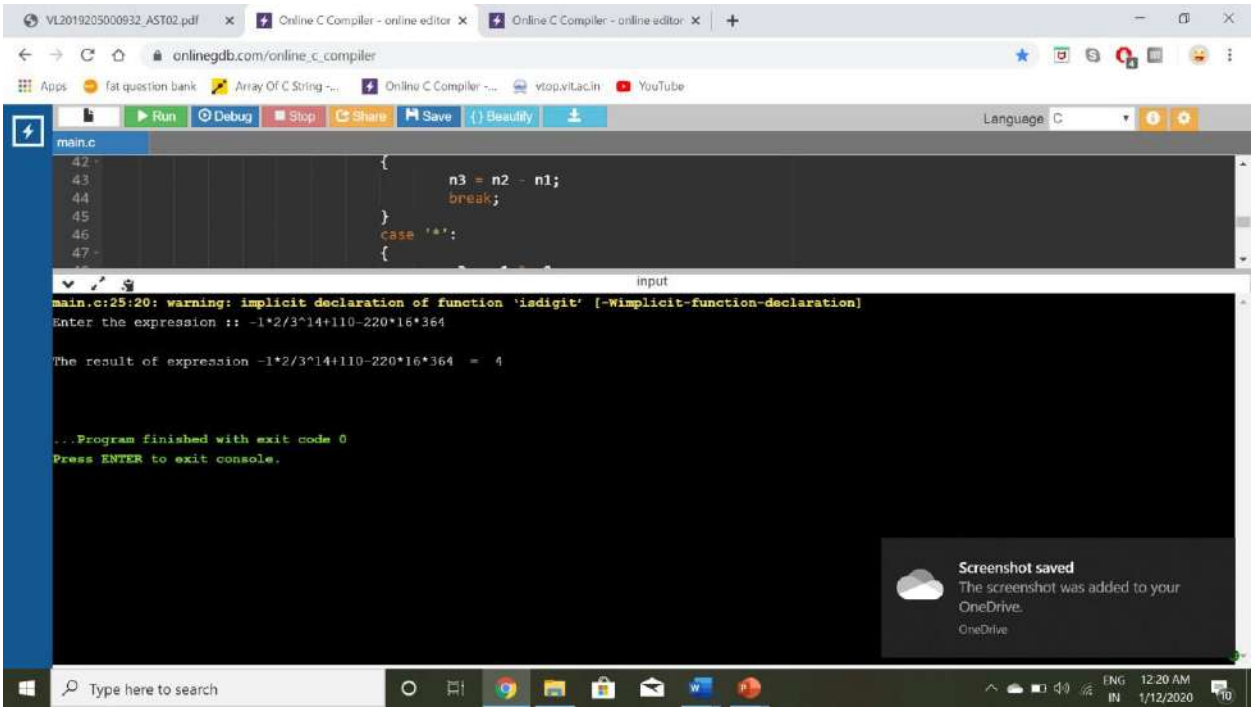
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{} Beautify
Language C
main.c
42 {
43 n3 = n2 - n1;
44 break;
45 }
46 case '*':
47 {
input
main.c:25:20: warning: implicit declaration of function 'isdigit' [-Wimplicit-function-declaration]
Enter the expression :: -1*2/3^14+110-220*16*364
The result of expression -1*2/3^14+110-220*16*364 = 4
...Program finished with exit code 0
Press ENTER to exit console.
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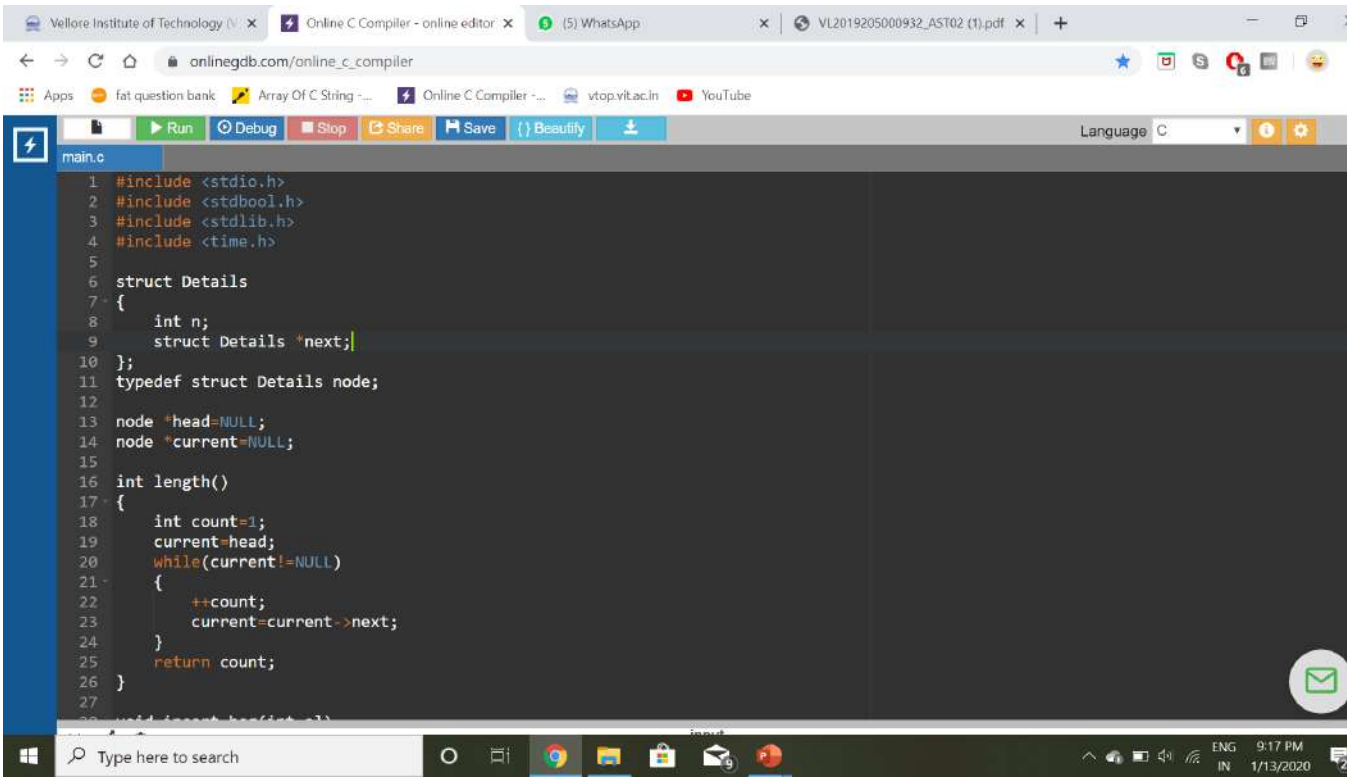
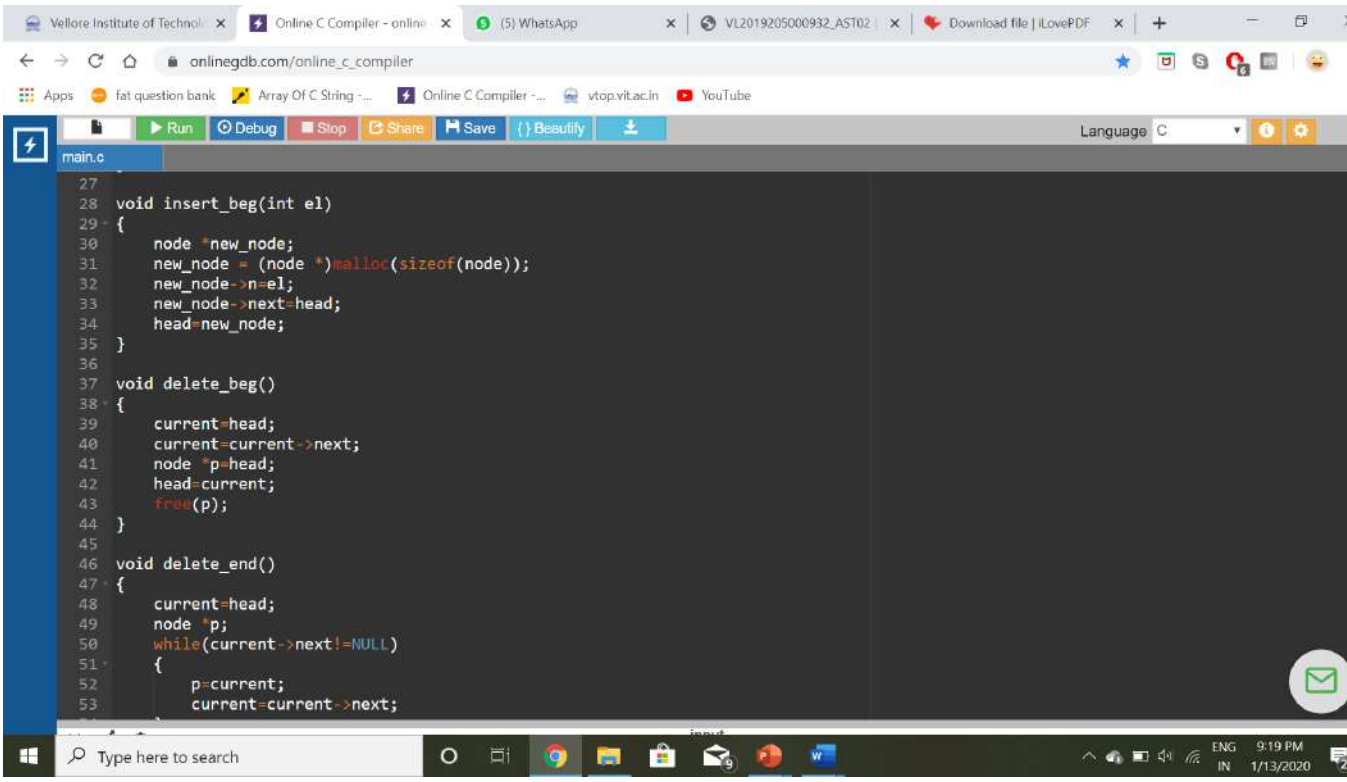
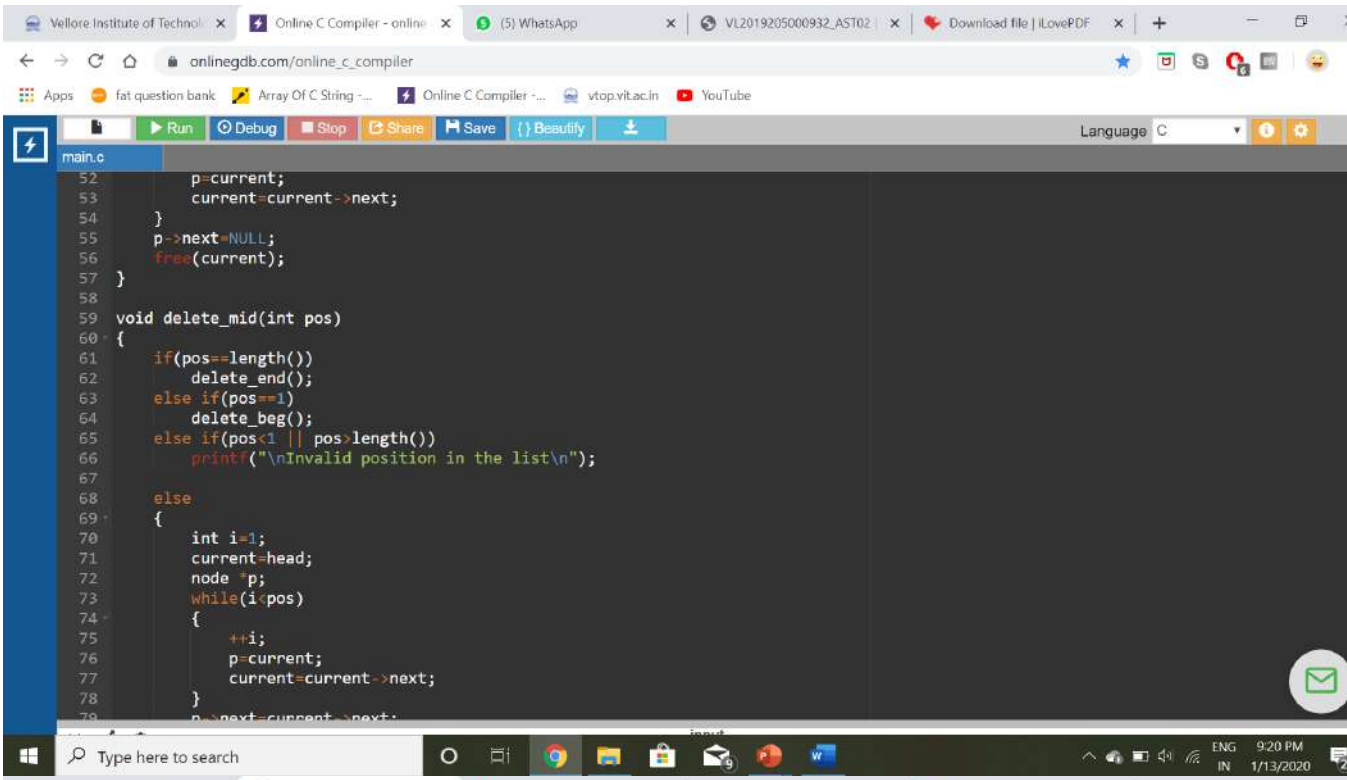
Question 9

Given a linked list and two integers M and N. Write a C/C++ Program to traverse the linked list such that you retain M nodes then delete next N nodes, continue the same until end of the linked list.



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{} Beautify
Language C
main.c
p=current;
current=current->next;
}
p->next=NULL;
free(current);
}
void delete_mid(int pos)
{
if(pos==length())
delete_end();
else if(pos==1)
delete_beg();
else if(pos<1 || pos>length())
printf("\nInvalid position in the list\n");
else
{
int i=1;
current=head;
node *p;
while(i<pos)
{
++i;
p=current;
current=current->next;
}
Type here to search
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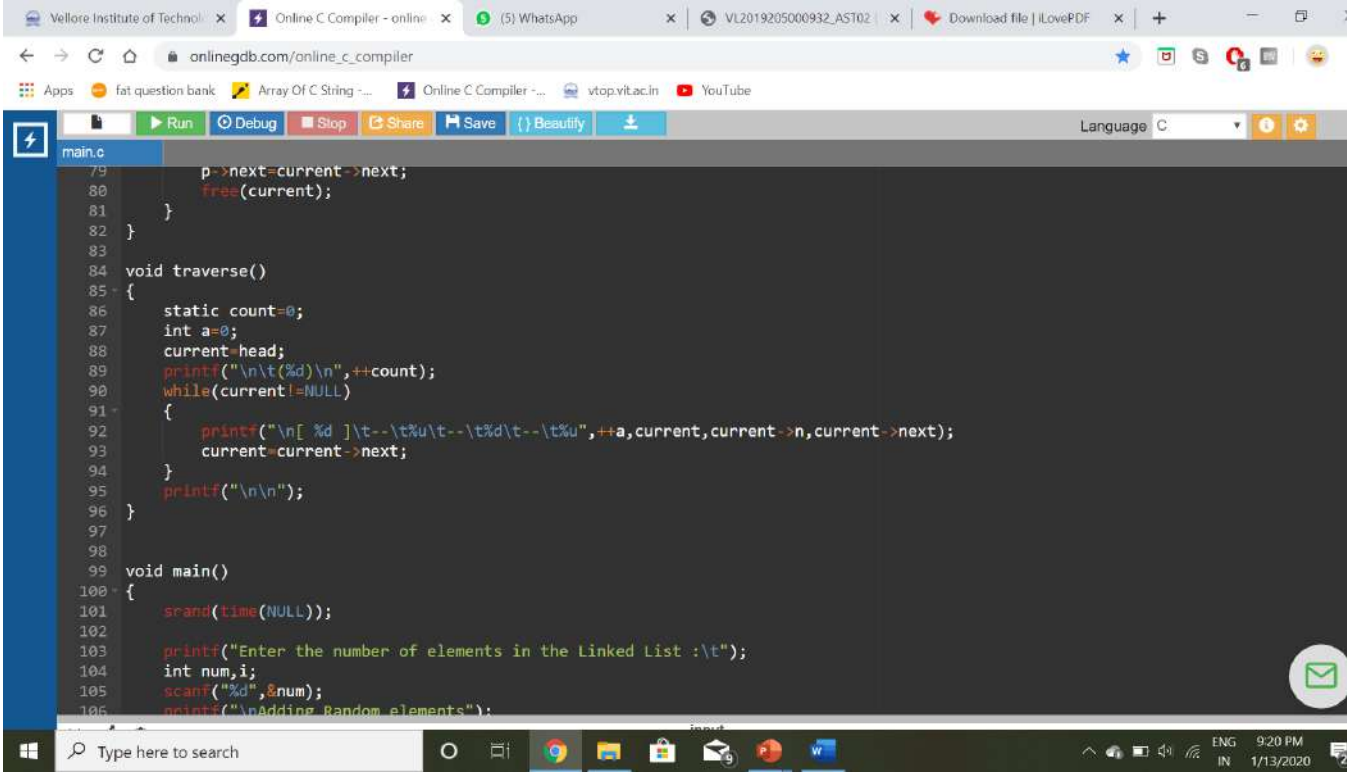
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{} Beautify
Language C
main.c
p->next=current->next;
free(current);
}
}
void traverse()
{
static count=0;
int a=0;
current=head;
printf("\n\t(%d)\n",++count);
while(current!=NULL)
{
printf("\n[%d]\t--\t%u\t--\t%d\t--\t%u",++a,current,current->n,current->next);
current=current->next;
}
printf("\n\n");
}
void main()
{
srand(time(NULL));
printf("Enter the number of elements in the Linked List :\t");
int num,i;
scanf("%d",&num);
Type here to search
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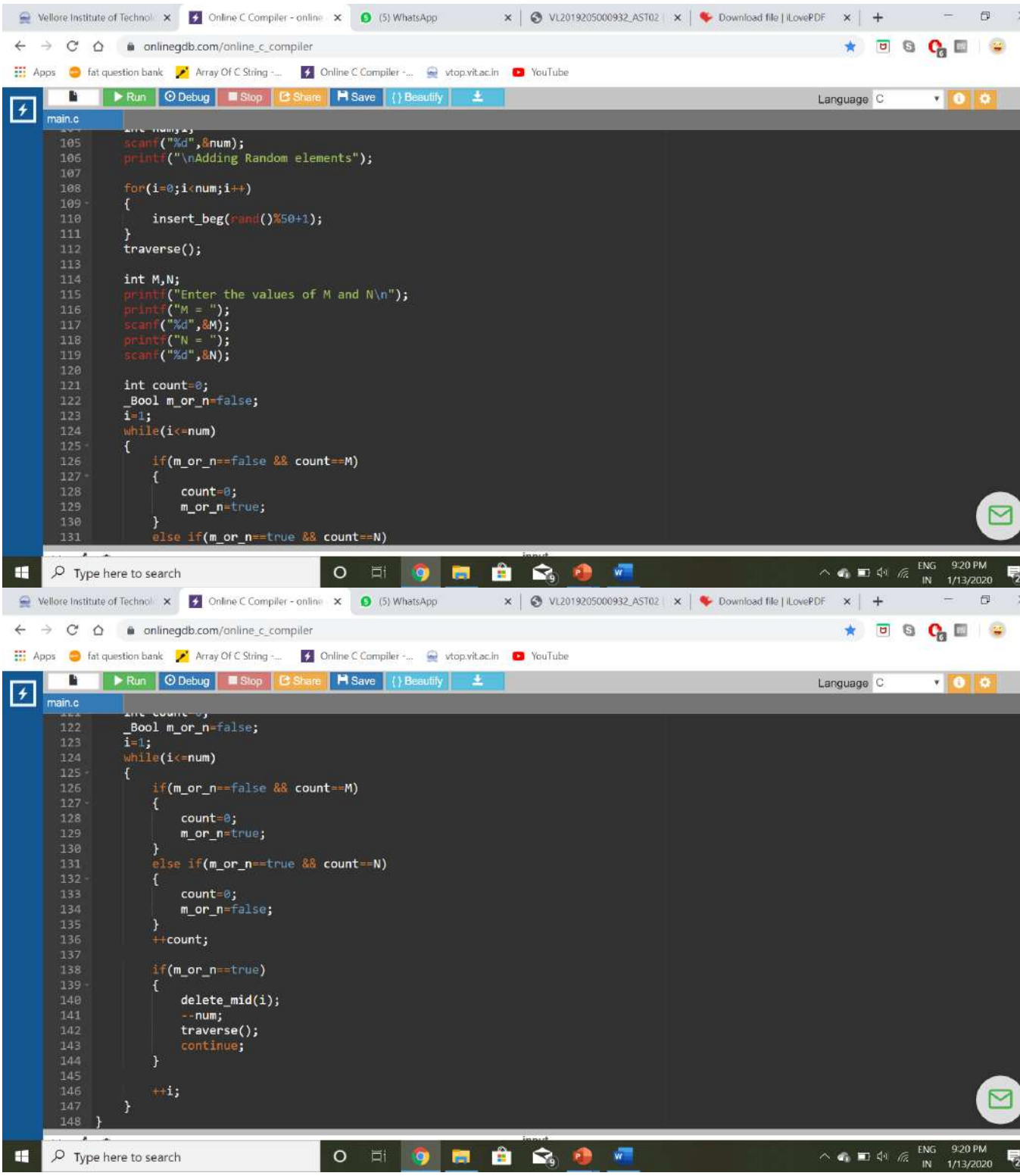
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{} Beautify
Language C
main.c
scanf("%d",&num);
printf("\nAdding Random elements");
for(i=0;i<num;i++)
{
insert_beg(rand()%50+1);
}
traverse();
int M,N;
printf("Enter the values of M and N\n");
printf("M = ");
scanf("%d",&M);
printf("N = ");
scanf("%d",&N);
int count=0;
_Bool m_or_n=false;
i=1;
while(i<=num)
{
if(m_or_n==false && count==M)
{
count=0;
m_or_n=true;
}
else if(m_or_n==true && count==N)
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{} Beautify
Language C
main.c
_Bool m_or_n=false;
i=1;
while(i<=num)
{
if(m_or_n==false && count==M)
{
count=0;
m_or_n=true;
}
else if(m_or_n==true && count==N)
{
count=0;
m_or_n=false;
}
++count;
if(m_or_n==true)
{
delete_mid(i);
--num;
traverse();
continue;
}
++i;
}
}
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ENG
IN
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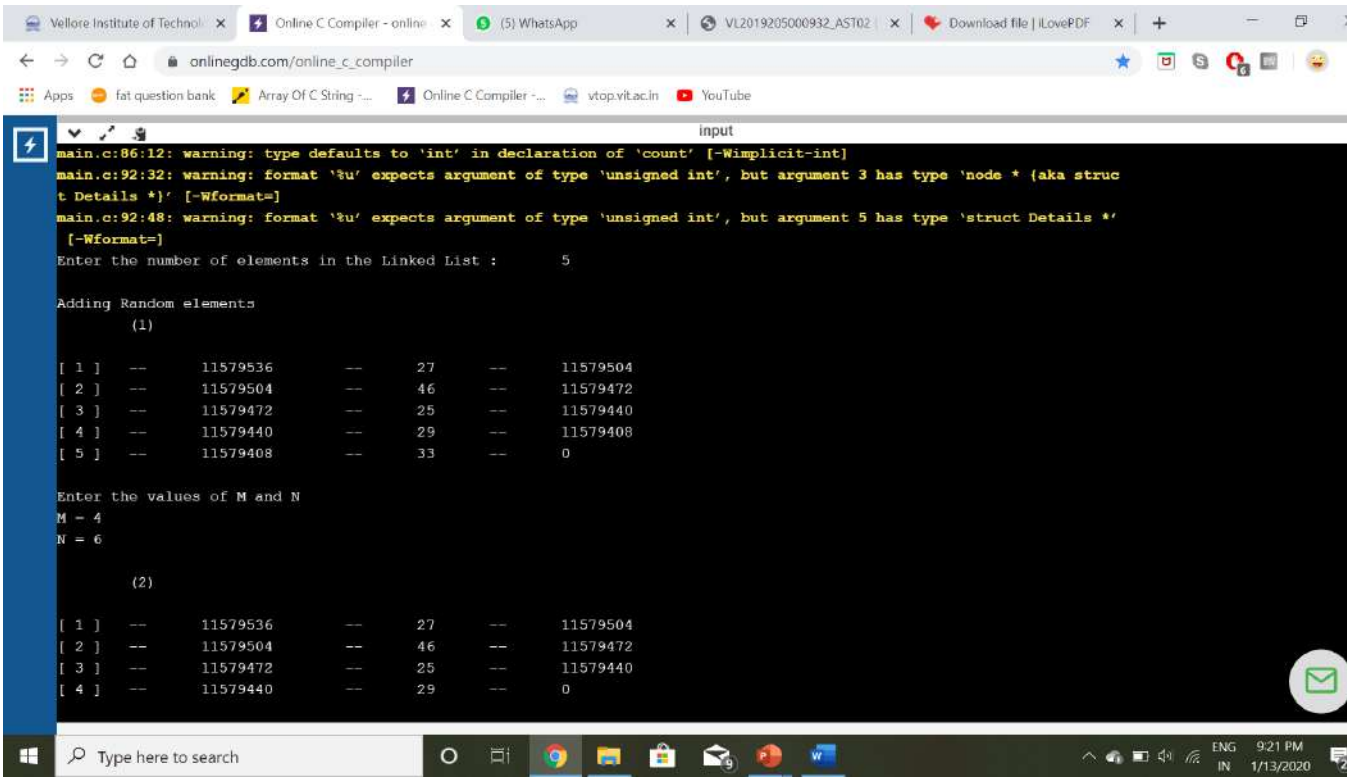
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input
main.c:86:12: warning: type defaults to 'int' in declaration of 'count' [-Wimplicit-int]
main.c:92:32: warning: format '%u' expects argument of type 'unsigned int', but argument 3 has type 'node * (aka struc
t Details *)' [-Wformat=]
main.c:92:48: warning: format '%u' expects argument of type 'unsigned int', but argument 5 has type 'struct Details *'
[-Wformat=]
Enter the number of elements in the Linked List : 5
Adding Random elements
(1)
[1] -- 11579536 -- 27 -- 11579504
[2] -- 11579504 -- 46 -- 11579472
[3] -- 11579472 -- 25 -- 11579440
[4] -- 11579440 -- 29 -- 11579408
[5] -- 11579408 -- 33 -- 0
Enter the values of M and N
M = 4
N = 6
(2)
[1] -- 11579536 -- 27 -- 11579504
[2] -- 11579504 -- 46 -- 11579472
[3] -- 11579472 -- 25 -- 11579440
[4] -- 11579440 -- 29 -- 0
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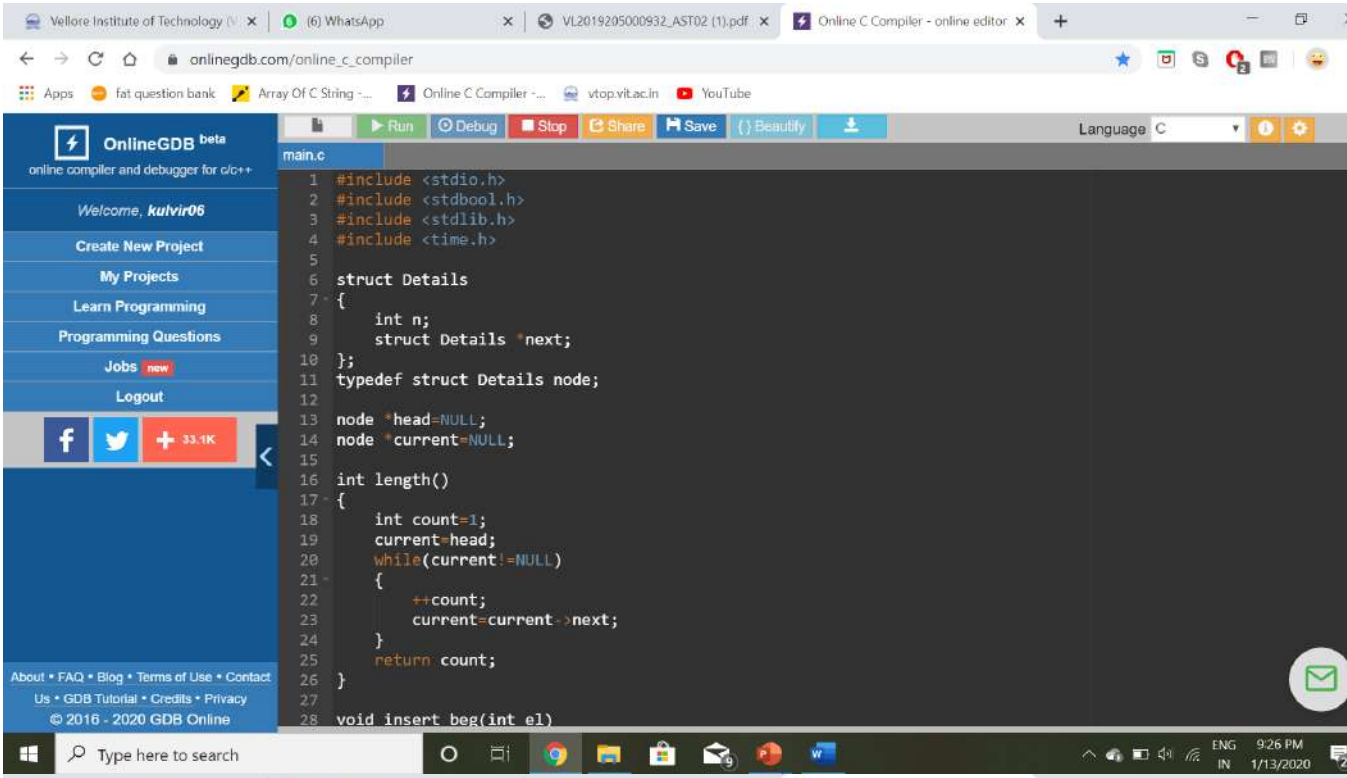
Question 6

Write a program to implement the following operations on singly linked list a. Insertion b. Deletion c. Search d. Print the data in reverse order



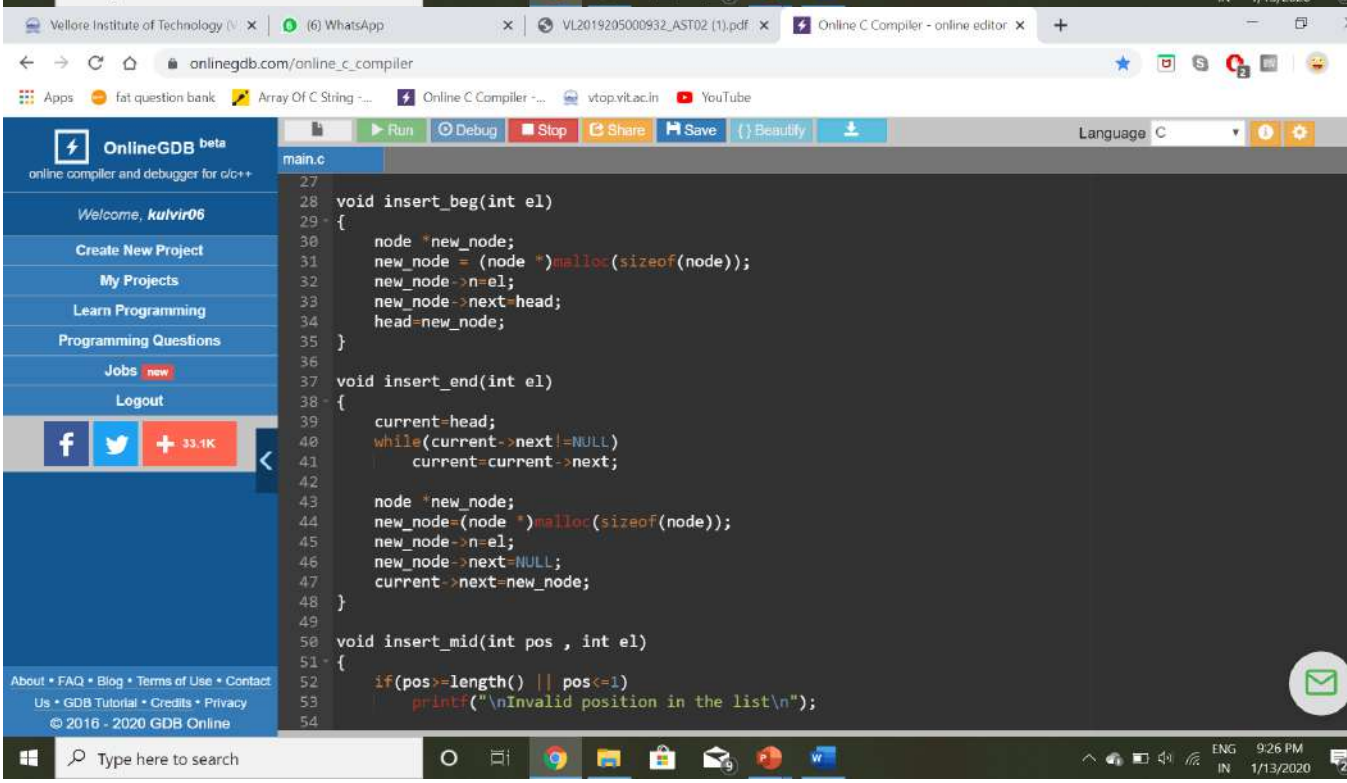
```c
#include <stdio.h>
#include <stdbool.h>
#include <stdlib.h>
#include <time.h>

struct Details
{
    int n;
    struct Details *next;
};
typedef struct Details node;

node *head=NULL;
node *current=NULL;

int length()
{
    int count=1;
    current=head;
    while(current!=NULL)
    {
        ++count;
        current=current->next;
    }
    return count;
}

void insert_beg(int el)
```



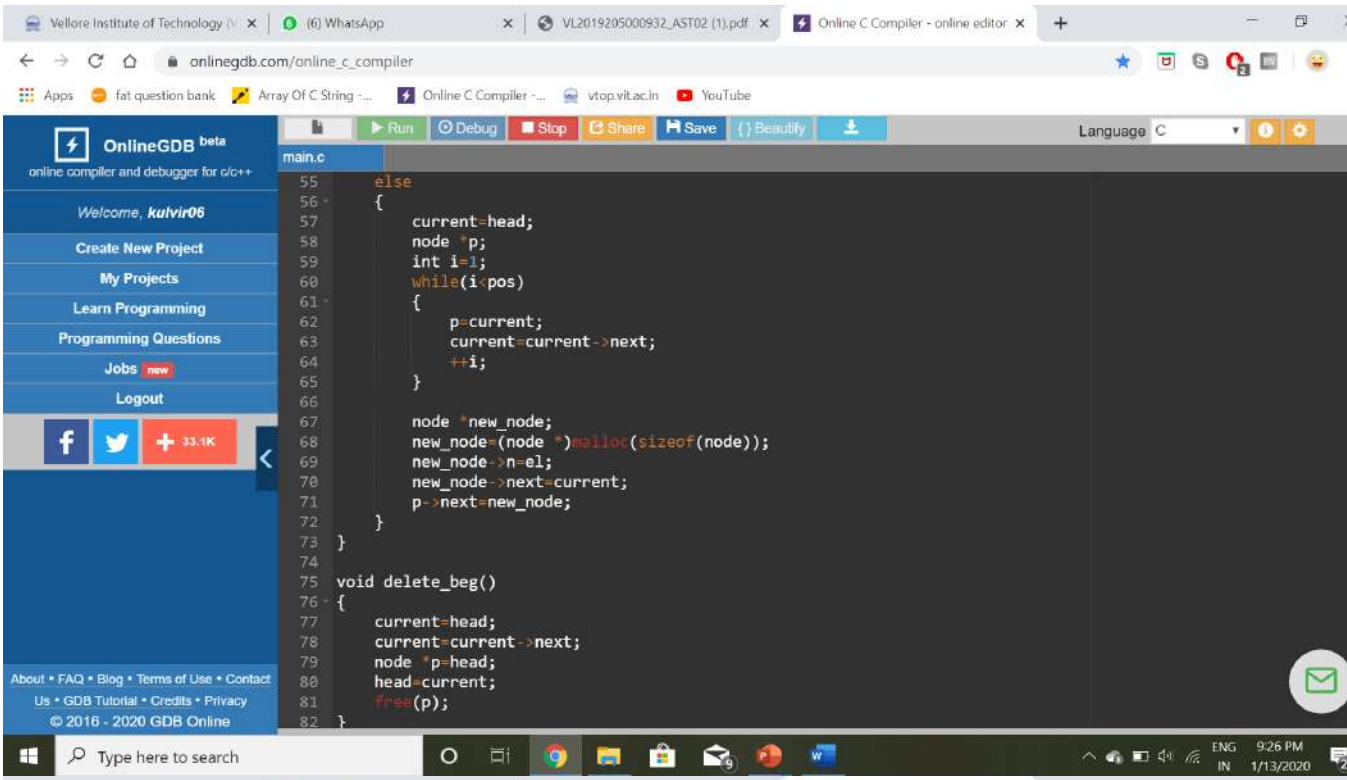
```c

void insert_beg(int el)
{
    node *new_node;
    new_node = (node *)malloc(sizeof(node));
    new_node->n=el;
    new_node->next=head;
    head=new_node;
}

void insert_end(int el)
{
    current=head;
    while(current->next!=NULL)
        current=current->next;

    node *new_node;
    new_node=(node *)malloc(sizeof(node));
    new_node->n=el;
    new_node->next=NULL;
    current->next=new_node;
}

void insert_mid(int pos , int el)
{
    if(pos>=length() || pos<=1)
        printf("\nInvalid position in the list\n");
```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main.c
55 else
56 {
57 current=head;
58 node *p;
59 int i=1;
60 while(i<pos)
61 {
62 p=current;
63 current=current->next;
64 ++i;
65 }
66
67 node *new_node;
68 new_node=(node *)malloc(sizeof(node));
69 new_node->n=el;
70 new_node->next=current;
71 p->next=new_node;
72 }
73 }
74
75 void delete_beg()
76 {
77 current=head;
78 current=current->next;
79 node *p=head;
80 head=current;
81 free(p);
82 }
Type here to search
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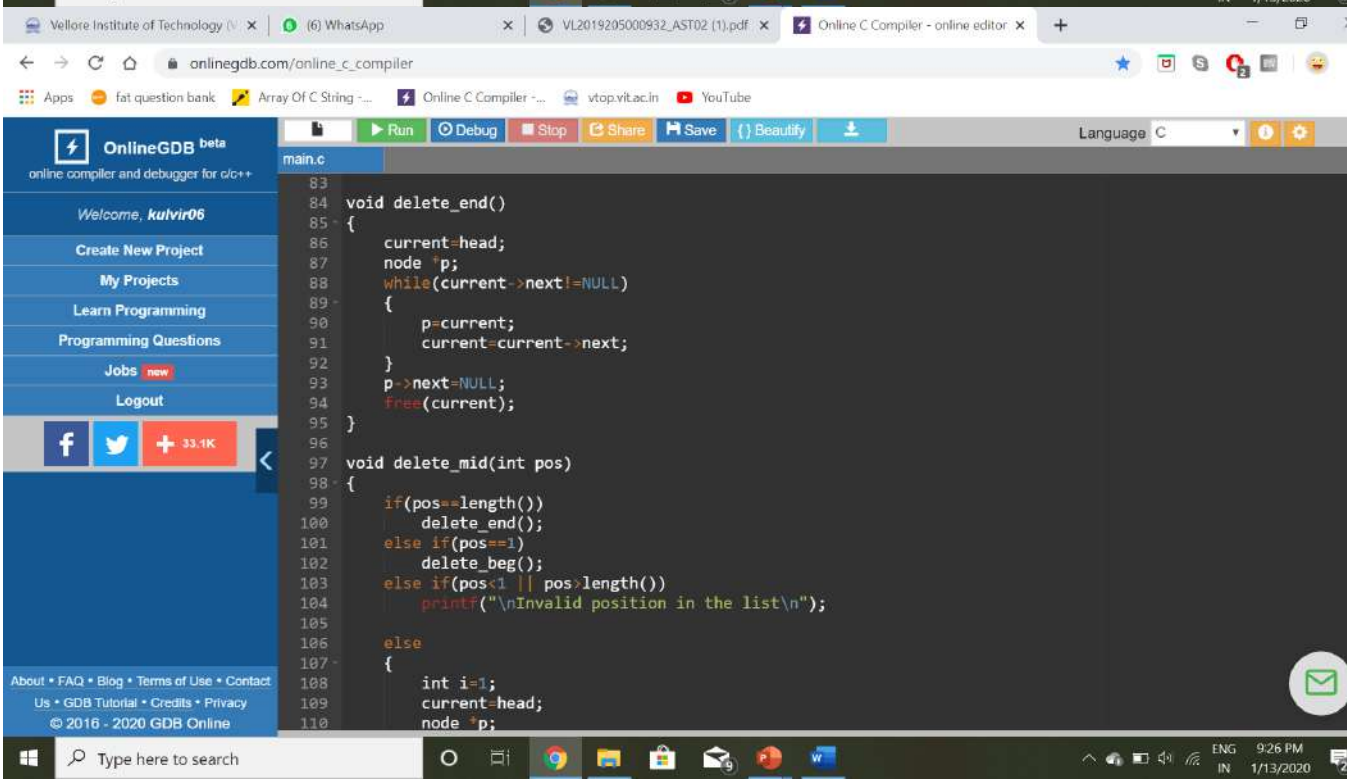
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{} Beautify
Language C
main.c
83
84 void delete_end()
85 {
86 current=head;
87 node *p;
88 while(current->next!=NULL)
89 {
90 p=current;
91 current=current->next;
92 }
93 p->next=NULL;
94 free(current);
95 }
96
97 void delete_mid(int pos)
98 {
99 if(pos==length())
100 delete_end();
101 else if(pos==1)
102 delete_beg();
103 else if(pos<1 || pos>length())
104 printf("\nInvalid position in the list\n");
105
106 else
107 {
108 int i=1;
109 current=head;
110 node *p;
Type here to search
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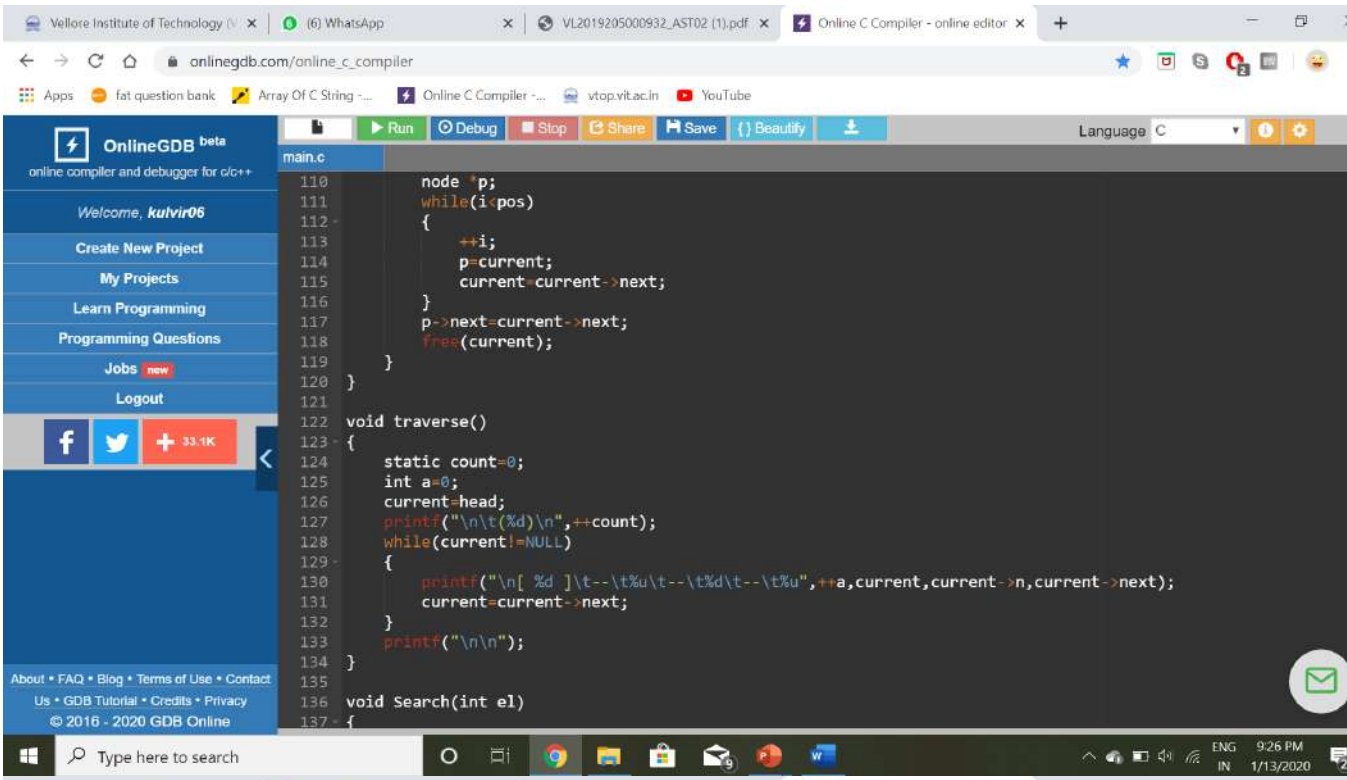
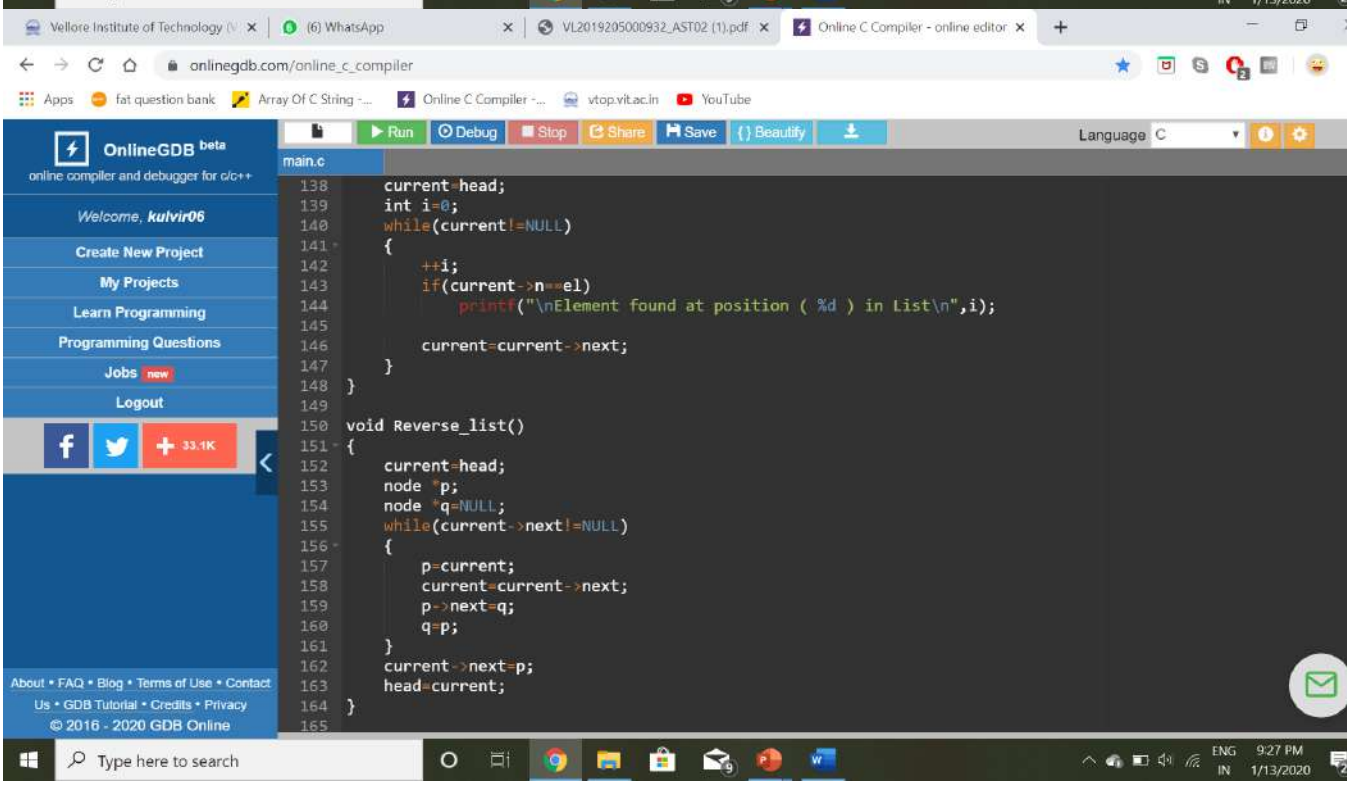
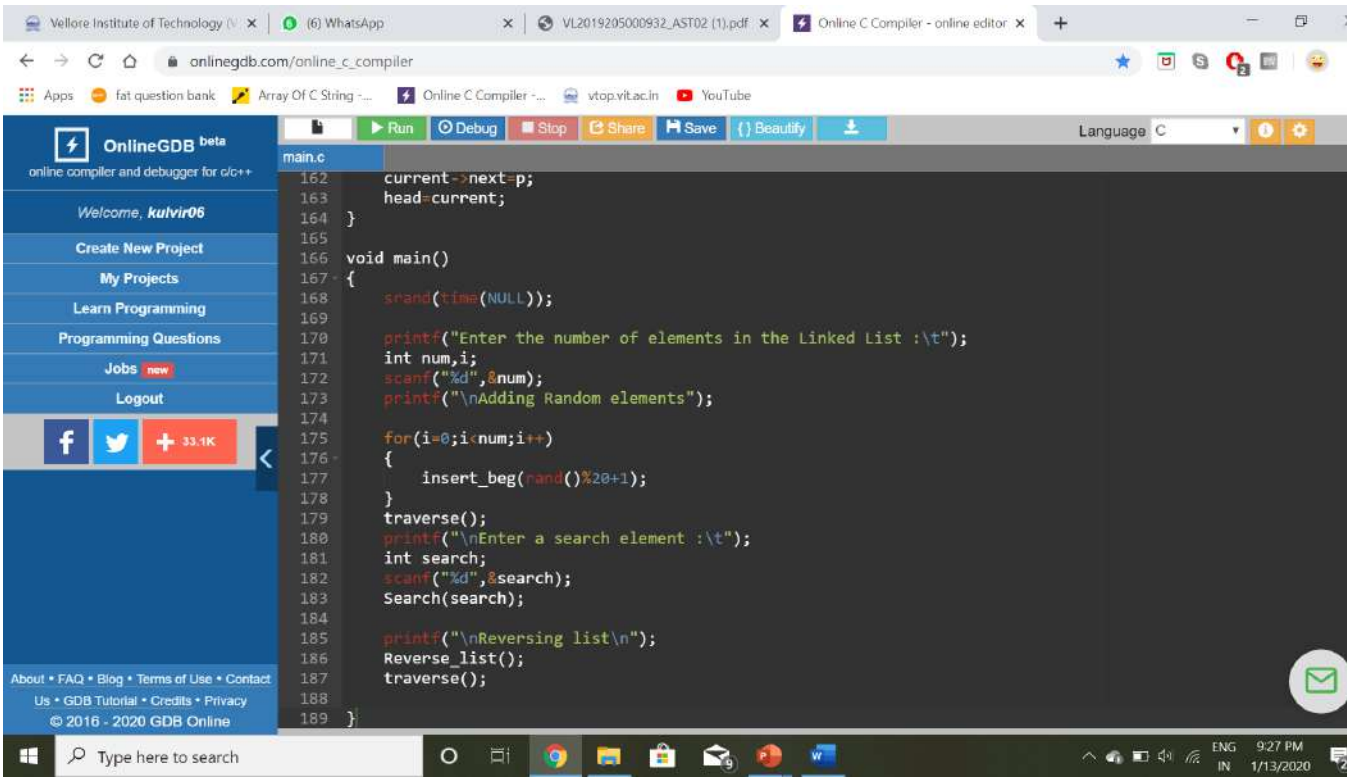


```
        node *p;
        while(i<pos)
        {
            ++i;
            p=current;
            current=current->next;
        }
        p->next=current->next;
        free(current);
    }
}

void traverse()
{
    static count=0;
    int a=0;
    current=head;
    printf("\n\t(%d)\n",++count);
    while(current!=NULL)
    {
        printf("\n[ %d ]\t--\t%u\t--\t%d\t--\t%u",++a,current,current->n,current->next);
        current=current->next;
    }
    printf("\n\n");
}

void Search(int el)
{
```



```
    current=head;
    int i=0;
    while(current!=NULL)
    {
        ++i;
        if(current->n==el)
            printf("\nElement found at position ( %d ) in List\n",i);

        current=current->next;
    }
}

void Reverse_list()
{
    current=head;
    node *p;
    node *q=NULL;
    while(current->next!=NULL)
    {
        p=current;
        current=current->next;
        p->next=q;
        q=p;
    }
    current->next=p;
    head=current;
}
```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Language C
main.c
current->next=p;
head=current;
}
void main()
{
srand(time(NULL));
printf("Enter the number of elements in the Linked List :\t");
int num,i;
scanf("%d",&num);
printf("\nAdding Random elements");
for(i=0;i<num;i++)
{
insert_beg(rand()%20+1);
}
traverse();
printf("\nEnter a search element :\t");
int search;
scanf("%d",&search);
Search(search);
printf("\nReversing list\n");
Reverse_list();
traverse();
}
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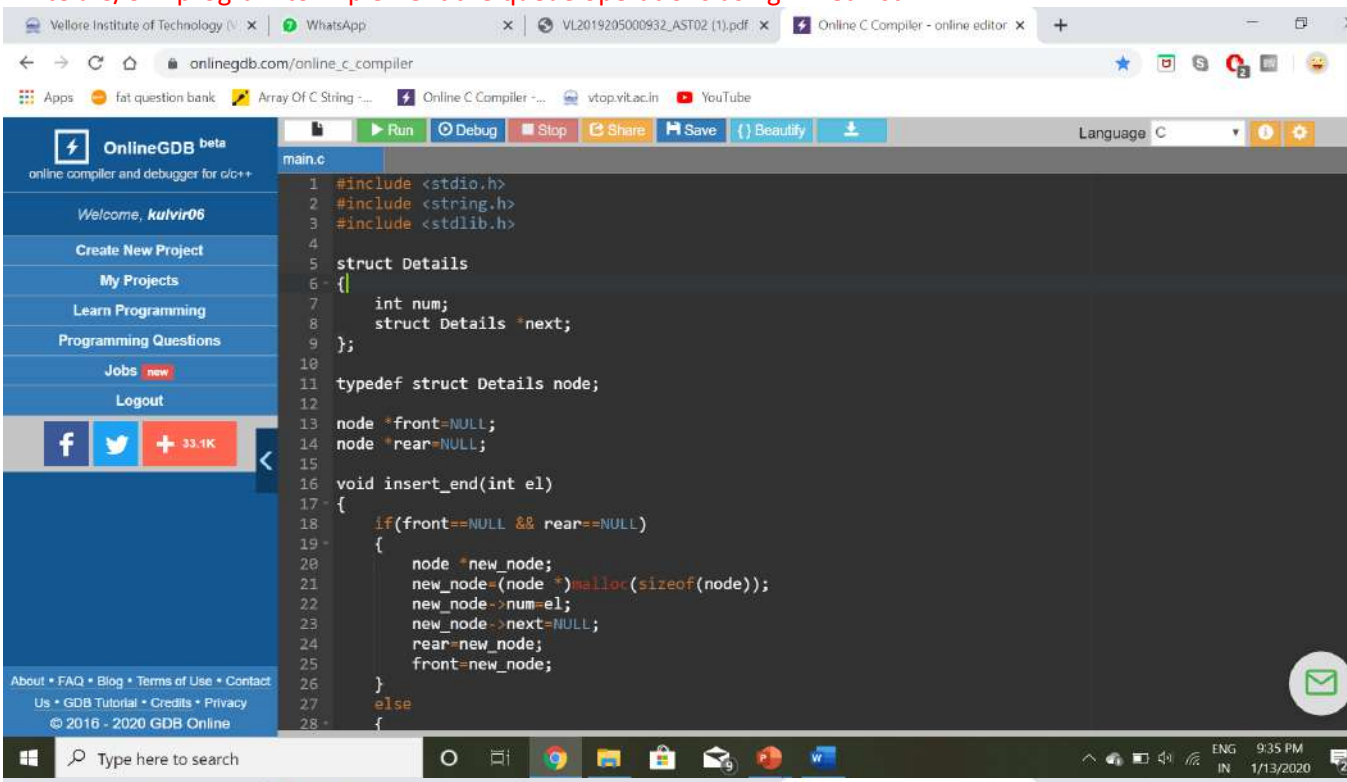
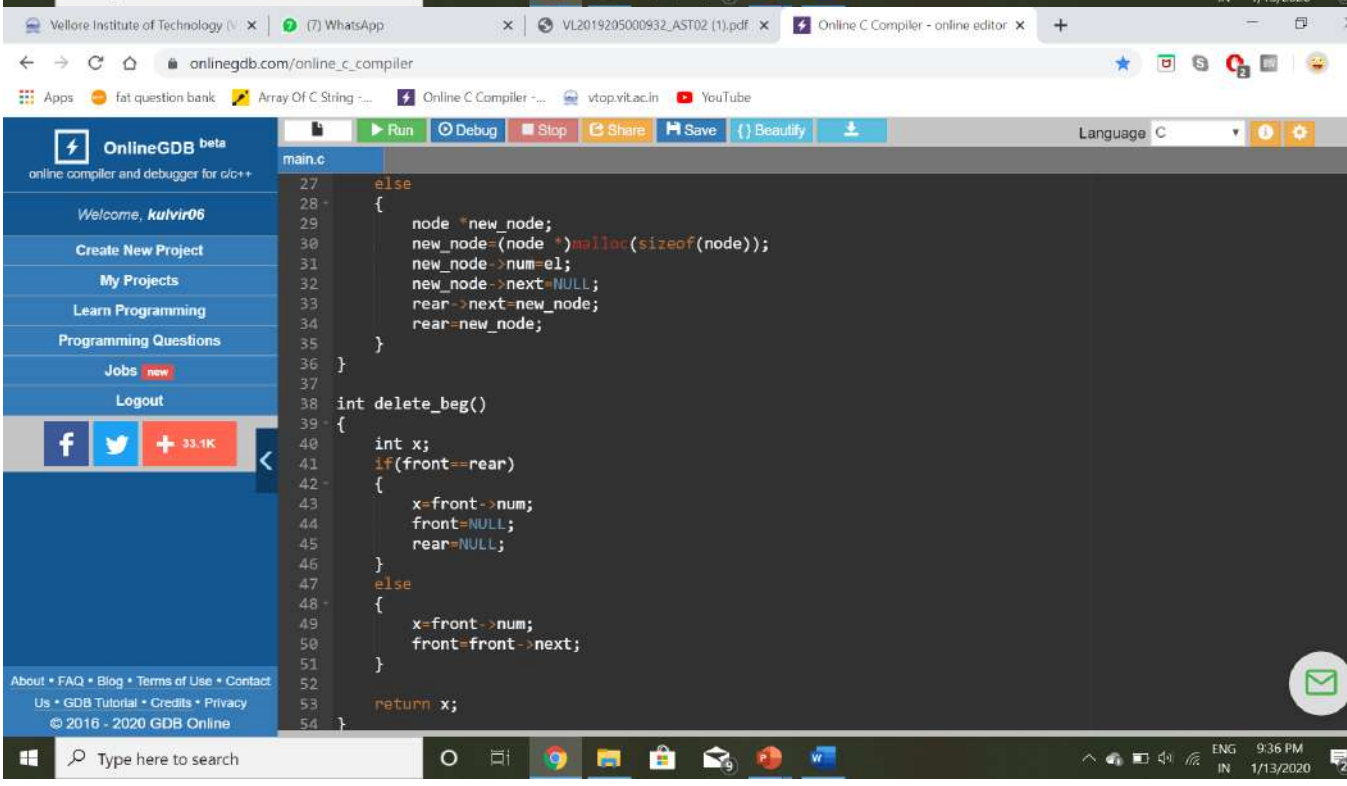
Question 8

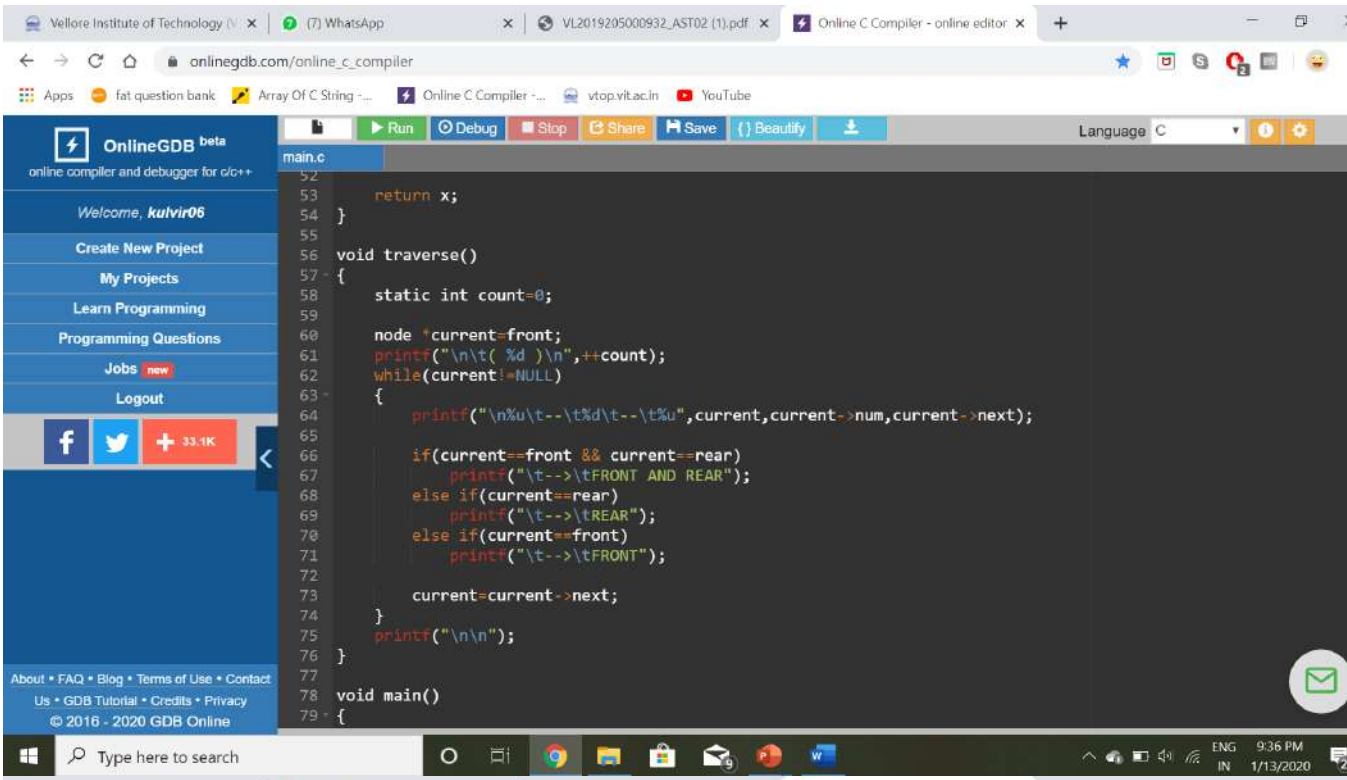
Write a C/C++ program to implement the queue operations using linked list.



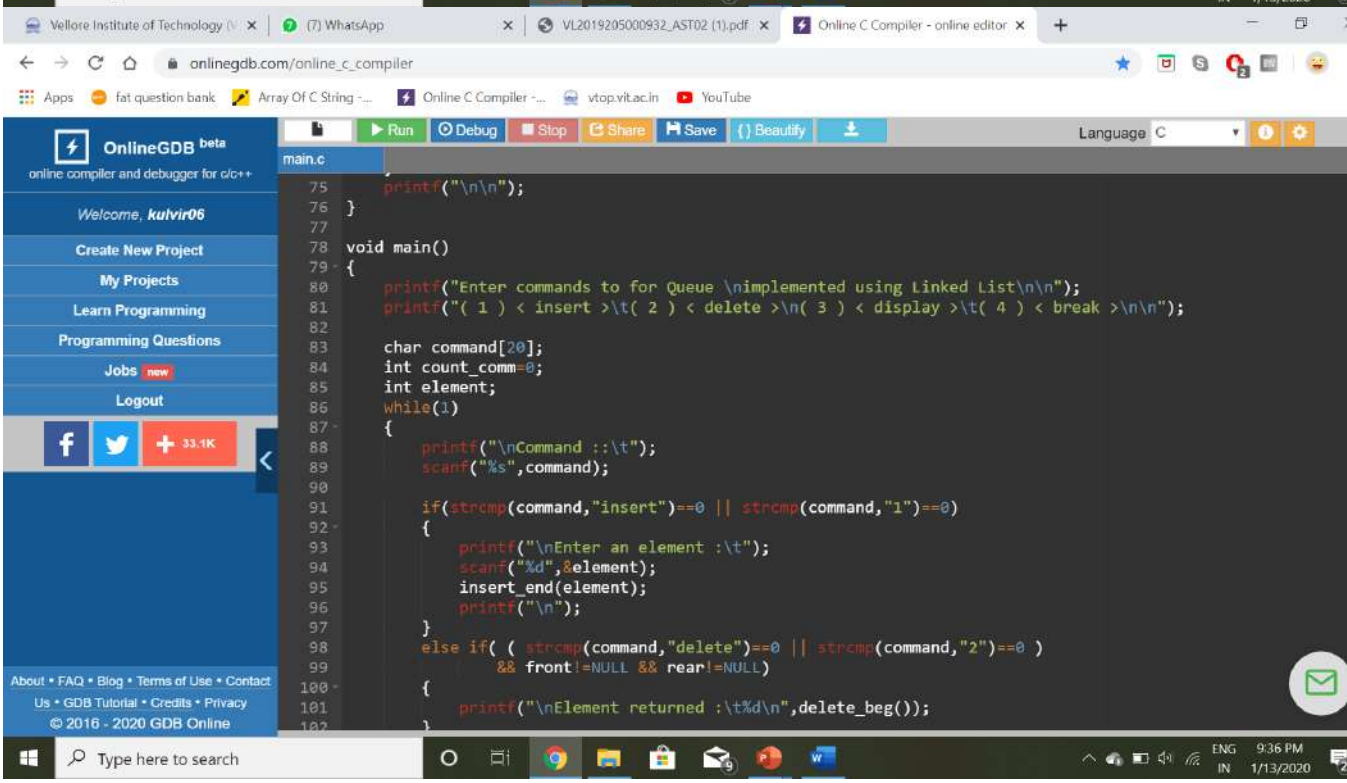
```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>

struct Details
{
    int num;
    struct Details *next;
};

typedef struct Details node;

node *front=NULL;
node *rear=NULL;

void insert_end(int el)
{
    if(front==NULL && rear==NULL)
    {
        node *new_node;
        new_node=(node *)malloc(sizeof(node));
        new_node->num=el;
        new_node->next=NULL;
        rear=new_node;
        front=new_node;
    }
    else
    {
```



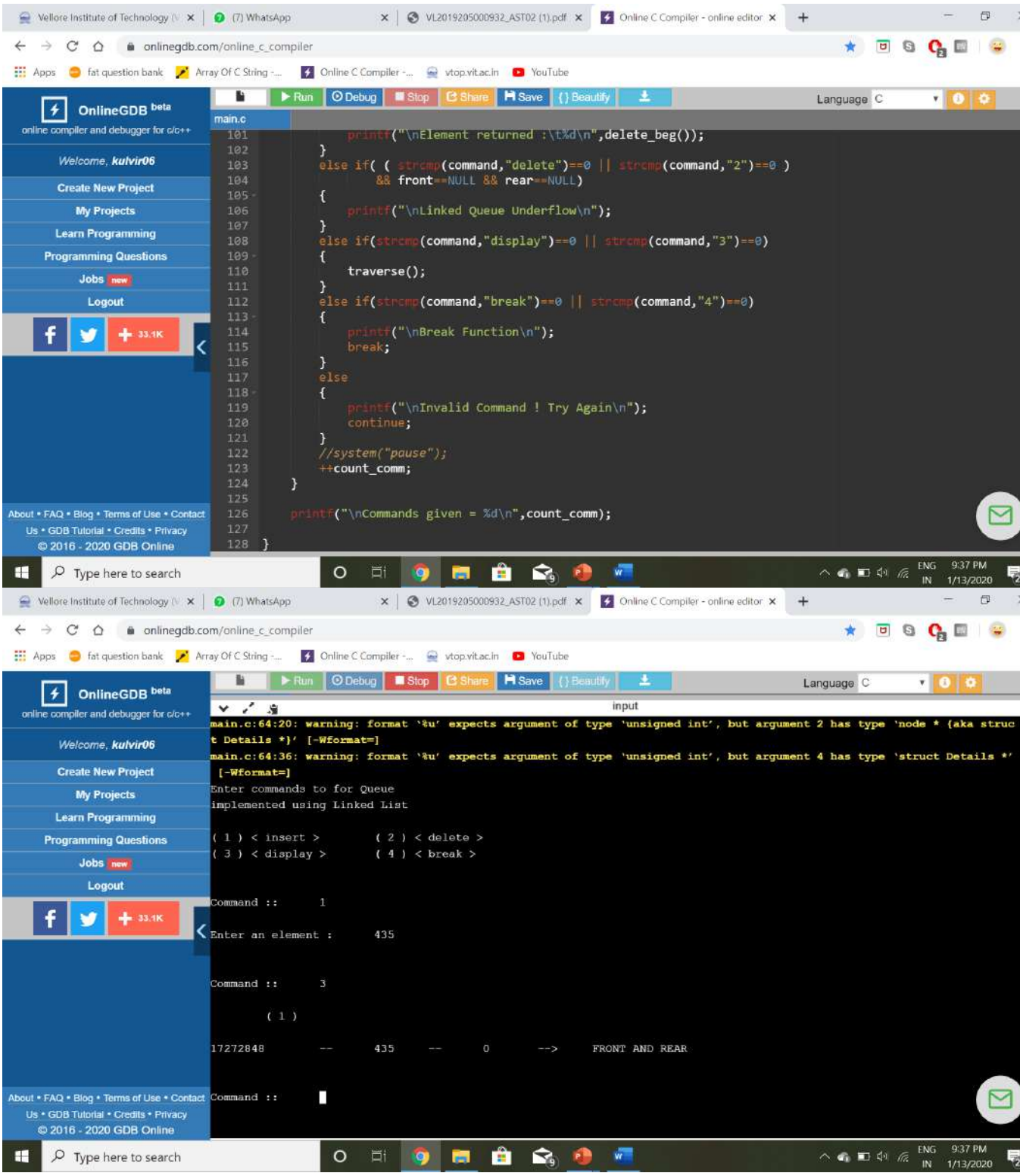
```
    else
    {
        node *new_node;
        new_node=(node *)malloc(sizeof(node));
        new_node->num=el;
        new_node->next=NULL;
        rear->next=new_node;
        rear=new_node;
    }
}

int delete_beg()
{
    int x;
    if(front==rear)
    {
        x=front->num;
        front=NULL;
        rear=NULL;
    }
    else
    {
        x=front->num;
        front=front->next;
    }

    return x;
}
```



```
    return x;
}

void traverse()
{
    static int count=0;

    node *current=front;
    printf("\n\t( %d )\n",++count);
    while(current!=NULL)
    {
        printf("\n%u\t--\t%d\t--\t%u",current,current->num,current->next);

        if(current==front && current==rear)
            printf("\t-->\tFRONT AND REAR");
        else if(current==rear)
            printf("\t-->\tREAR");
        else if(current==front)
            printf("\t-->\tFRONT");

        current=current->next;
    }
    printf("\n\n");
}

void main()
{
```



```
    printf("\n\n");
}

void main()
{
    printf("Enter commands to for Queue \nimplemented using Linked List\n\n");
    printf("( 1 ) < insert >\t( 2 ) < delete >\n( 3 ) < display >\t( 4 ) < break >\n\n");

    char command[20];
    int count_comm=0;
    int element;
    while(1)
    {
        printf("\nCommand ::\t");
        scanf("%s",command);

        if(strcmp(command,"insert")==0 || strcmp(command,"1")==0)
        {
            printf("\nEnter an element :\t");
            scanf("%d",&element);
            insert_end(element);
            printf("\n");
        }
        else if( ( strcmp(command,"delete")==0 || strcmp(command,"2")==0 )
                && front!=NULL && rear!=NULL)
        {
            printf("\nElement returned :\t%d\n",delete_beg());
```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{} Beautify
Language C
main.c
101 printf("\nElement returned :\t%d\n",delete_beg());
102 }
103 else if((strcmp(command,"delete")==0 || strcmp(command,"2")==0)
104 && front==NULL && rear==NULL)
105 {
106 printf("\nLinked Queue Underflow\n");
107 }
108 else if(strcmp(command,"display")==0 || strcmp(command,"3")==0)
109 {
110 traverse();
111 }
112 else if(strcmp(command,"break")==0 || strcmp(command,"4")==0)
113 {
114 printf("\nBreak Function\n");
115 break;
116 }
117 else
118 {
119 printf("\nInvalid Command ! Try Again\n");
120 continue;
121 }
122 //system("pause");
123 ++count_comm;
124 }
125
126 printf("\nCommands given = %d\n",count_comm);
127
128 }
input
main.c:64:20: warning: format '%u' expects argument of type 'unsigned int', but argument 2 has type 'node * (aka struct Details *)' [-Wformat=]
main.c:64:36: warning: format '%u' expects argument of type 'unsigned int', but argument 4 has type 'struct Details *' [-Wformat=]
Enter commands to for Queue
implemented using Linked List
(1) < insert > (2) < delete >
(3) < display > (4) < break >
Command :: 1
Enter an element : 435
Command :: 3
(1)
17272848 -- 435 -- 0 --> FRONT AND REAR
Command ::
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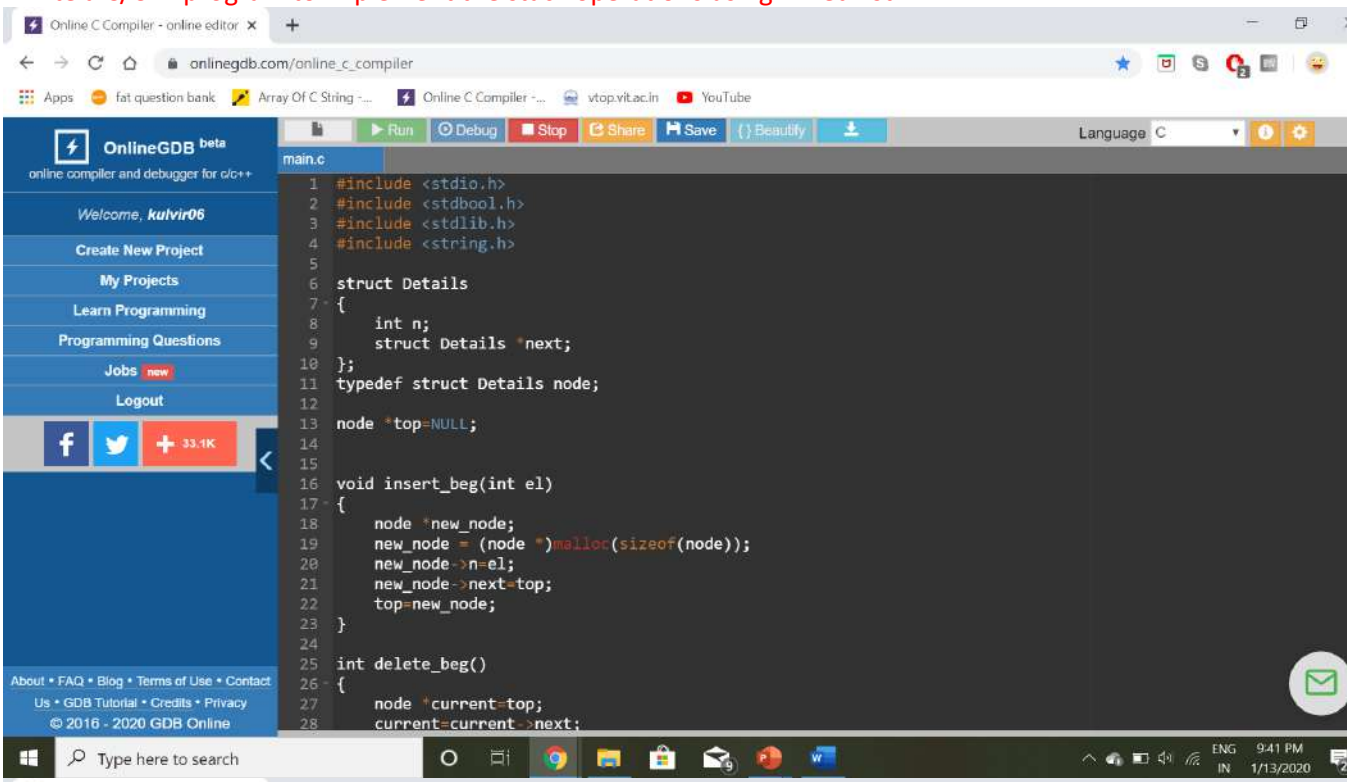
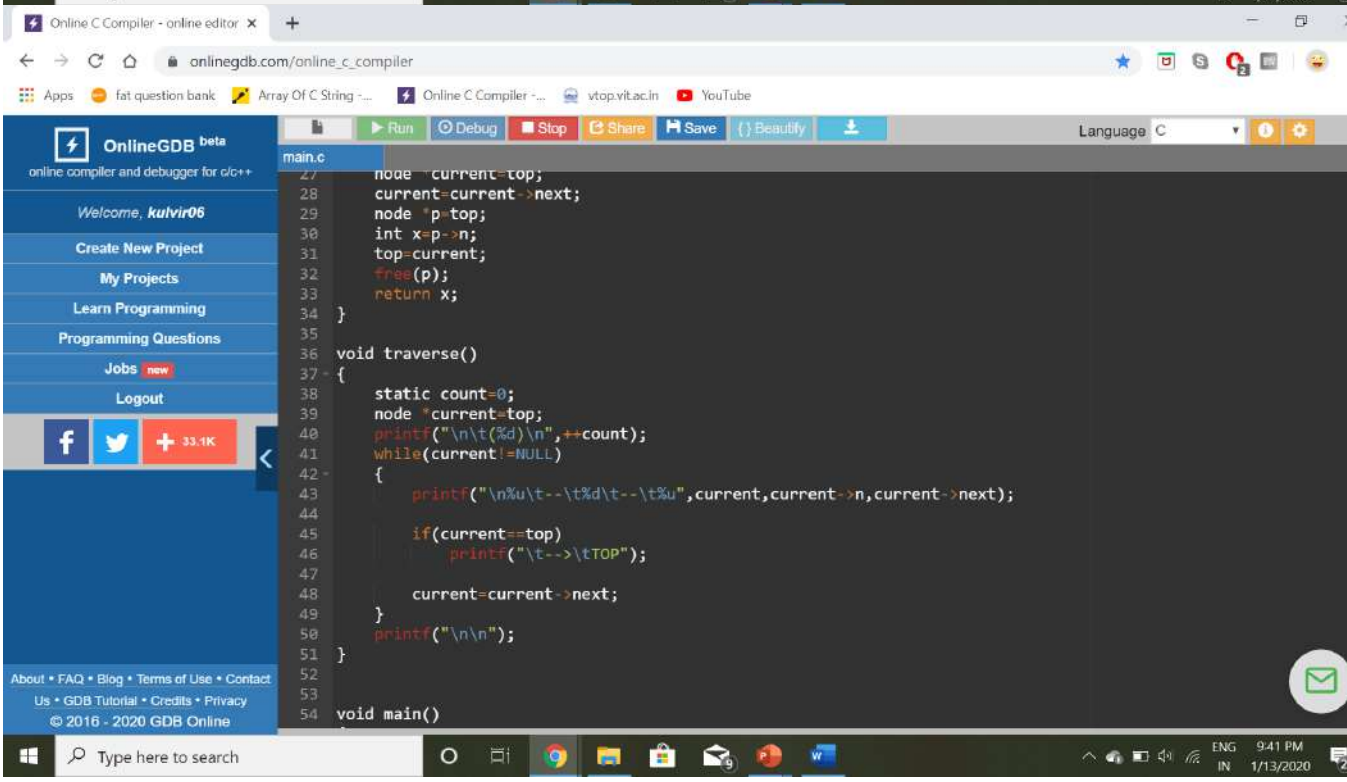
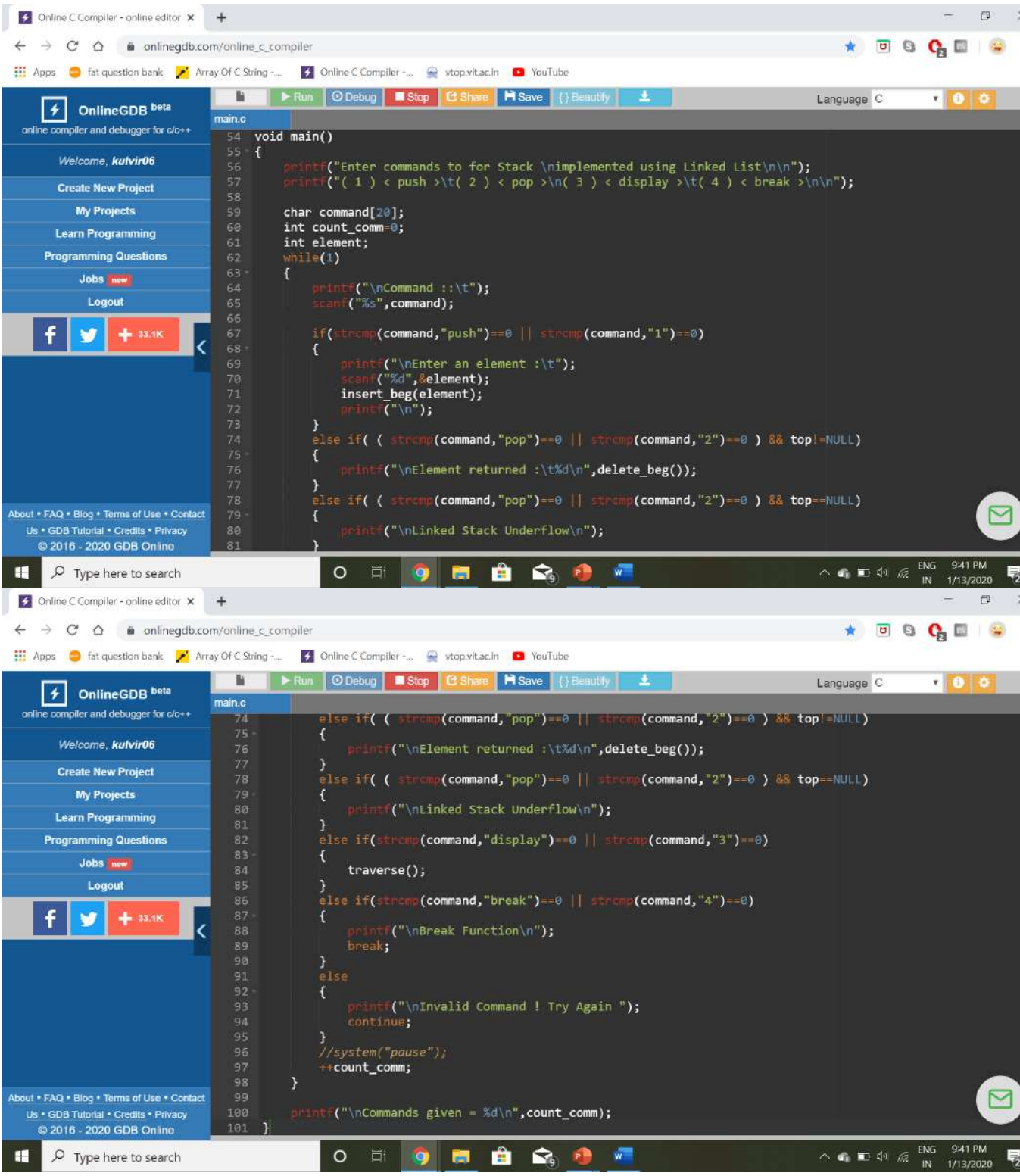
Question 7

Write a C/C++ program to implement the stack operations using linked list.



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{} Beautify
Language C
main.c
54 void main()
55 {
56 printf("Enter commands to for Stack \nimplemented using Linked List\n\n");
57 printf("(1) < push >\t(2) < pop >\n(3) < display >\t(4) < break >\n\n");
58
59 char command[20];
60 int count_comm=0;
61 int element;
62 while(1)
63 {
64 printf("\nCommand ::\t");
65 scanf("%s",command);
66
67 if(strcmp(command,"push")==0 || strcmp(command,"1")==0)
68 {
69 printf("\nEnter an element :\t");
70 scanf("%d",&element);
71 insert_beg(element);
72 printf("\n");
73 }
74 else if((strcmp(command,"pop")==0 || strcmp(command,"2")==0) && top!=NULL)
75 {
76 printf("\nElement returned :\t%d\n",delete_beg());
77 }
78 else if((strcmp(command,"pop")==0 || strcmp(command,"2")==0) && top==NULL)
79 {
80 printf("\nLinked Stack Underflow\n");
81 }
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Share
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{} Beautify
Language C
main.c
74 else if((strcmp(command,"pop")==0 || strcmp(command,"2")==0) && top!=NULL)
75 {
76 printf("\nElement returned :\t%d\n",delete_beg());
77 }
78 else if((strcmp(command,"pop")==0 || strcmp(command,"2")==0) && top==NULL)
79 {
80 printf("\nLinked Stack Underflow\n");
81 }
82 else if(strcmp(command,"display")==0 || strcmp(command,"3")==0)
83 {
84 traverse();
85 }
86 else if(strcmp(command,"break")==0 || strcmp(command,"4")==0)
87 {
88 printf("\nBreak Function\n");
89 break;
90 }
91 else
92 {
93 printf("\nInvalid Command ! Try Again ");
94 continue;
95 }
96 //system("pause");
97 ++count_comm;
98 }
99
100 printf("\nCommands given = %d\n",count_comm);
101 }
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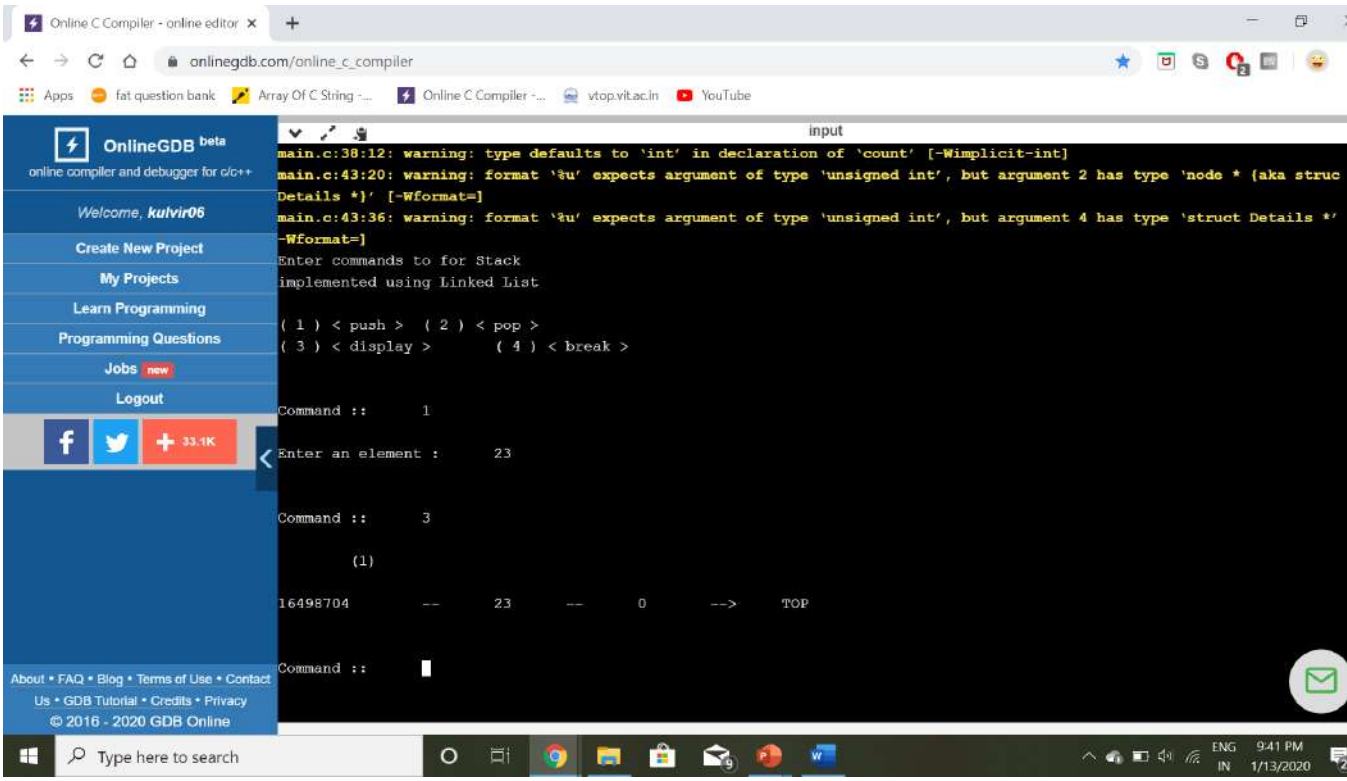
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Array Of C String -...
Online C Compiler -...
vtop.vit.ac.in
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online compiler and debugger for c/c++
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input
main.c:38:12: warning: type defaults to 'int' in declaration of 'count' [-Wimplicit-int]
main.c:43:20: warning: format '%u' expects argument of type 'unsigned int', but argument 2 has type 'node * (aka struc
Details *)' [-Wformat=]
main.c:43:36: warning: format '%u' expects argument of type 'unsigned int', but argument 4 has type 'struct Details *'
-Wformat=]
Enter commands to for Stack
implemented using Linked List
(1) < push > (2) < pop >
(3) < display > (4) < break >
Command :: 1
Enter an element : 23
Command :: 3
(1)
16498704 -- 23 -- 0 --> TOP
Command ::
Type here to search
ENG
IN
9:41 PM
1/13/2020