Activity-5
Ripunjay Narula(19BCE0470)

Q. Write a program to perform the operations on linked stack.

Code:

```c
#include <stdio.h>
#include <stdlib.h>
struct stack
{
int data;
struct stack *next;
};
typedef struct stack node;
int t = -1;
node *top;
node *temp;
void push ()
{
if (t == -1)
{
top = (node *) (malloc (sizeof (node)));
printf ("\nEnter input: ");
scanf ("%d", &top->data);
top->next = NULL;
t++;
}
else
{
temp = (node *) (malloc (sizeof (node)));
temp->next = top;
top = temp;
printf ("\nEnter number input: ");
scanf ("%d", &top->data);
t++;
```

```c
}
}
void pop ()
{
if (t < 0)
{
printf ("\nStack is empty");
return;
}
printf ("\nTop element is: %d", top->data);
temp = top;
top = top->next;
free (temp);
t--;
}
int main ()
{
int ch;
do
{
printf("\nEnter your choice:\n1) Push element.\n2) Pop element.\n3) Exit\n");
scanf ("%d", &ch);
switch (ch)
{
case 1:
push ();
break;
case 2:
pop ();
break;
case 3:
printf ("\nBye");
break;
default:
printf ("\nWrong choice");
}
```

```
}
while (ch != 3);
return 0;
}
```

Output: