```
int STK[100],TOP=-1,i,n,x,choice;
void Push();
void Pop();
void Peep();
void Display();
void main()
printf("Welcome to implementation of stack array!\n");
printf("Enter the size of the stack(Maximum size=100)\n");
do
printf("Stack operations available are\n");
printf("1.Push\n2.Pop\n3.Peep\n4.Display\n5.Exit\n");
scanf("%d",&choice);
switch(choice)
case 1:
Push();
break;
Pop();
break;
Peep();
break;
Display();
break;
case 5:
printf("Program Finished\n");
break;
default:
printf("WRONG CHOICE!\n");
while(choice!=5);
```

```
printf("Enter the element to be Pushed\n");
scanf("%d",&x);
TOP++;
STK[100]=x;
printf("The Popped element is %d\n",STK[TOP]);
printf("Enter the position of the element from the top from which you wish to Peep\n"); scanf("%d",&i); if(TOP-i+1<0)
void Display()
if(TOP<0)
printf("Stack is empty\n");
printf("The elements in the Stack are:");
for(i=TOP;i>-1;i--)
printf("\n %d \n",STK[i]);
```

```
fl406@itadmin:~$ gedit Exp1.c
dl406@itadmin:~$ gcc Exp1.c
dl406@itadmin:~$ ./a.out
Welcome to implementation of stack array!
Enter the size of the stack(Maximum size=1)
Stack operations available are
1.Push
2.Pop
3.Peep
Display
5.Exit
Enter the element to be Pushed
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
Enter the element to be Pushed
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
Enter the element to be Pushed
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
The elements in the Stack are:
8
The elements in the Stack are:
 5
Stack operations available are
1.Push
2.Pop
Peep
4.Display
5.Exit
5
Program Finished
```

```
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
The Popped element is 6
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
2
The Popped element is 8
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
The elements in the Stack are:
Stack operations available are
1.Push
2.Pop
3.Peep
4.Display
5.Exit
Enter the position of the element from the top from which you wish to Peep
The 1 element from the top is:5
```