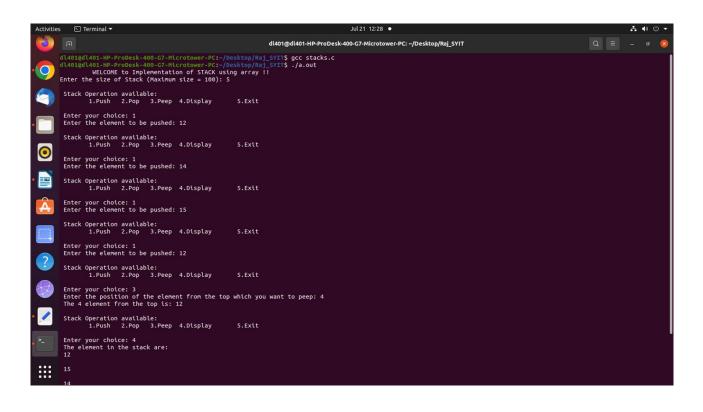
```
practical number 2
#include <stdio.h>
int STK[100], TOP = -1, i, n, x;
void Push();
void Pop();
void Peep();
void Display();
void main()
  int choice;
  printf("\t WELCOME to Implementation of STACK using array !! \n");
  printf("Enter the size of Stack (Maximum size = 100): ");
  scanf("%d", &n);
  do
     printf("\n Stack Operation available: \n");
     printf("\t1.Push\t 2.Pop\t 3.Peep\t 4.Display\t 5.Exit \n");
     printf("\n Enter your choice: ");
     scanf("%d", &choice);
     switch (choice)
     case 1:
       Push();
       break;
     case 2:
       Pop();
       break;
     case 3:
       Peep();
       break;
     case 4:
       Display();
       break;
     case 5:
       printf("Exit: Program Finished !! ");
       break;
     default:
       printf("Please enter a valid choide: 1, 2, 3, 4, 5 \n");
  } while (choice != 5);
}
// Function to perform PUSH Operation
void Push()
  if (TOP >= n - 1)
     printf(" Stack Overflow \n");
```

```
}
  else
     printf(" Enter the element to be pushed: ");
     scanf("%d", &x);
     TOP++;
     STK[TOP] = x;
}
// Function to perform POP Operation
void Pop()
{
  if (TOP < 0)
     printf(" Stack Underflow \n");
  else
     printf(" The popped element is: %d \n", STK[TOP]);
     TOP--;
}
// Function to perform PEEP Opeartion
void Peep()
  printf(" Enter the position of the element from the top which you want to peep: ");
  scanf("%d", &i);
  if (TOP - i + 1 < 0)
     printf(" Stack Underflow on Peep \n");
  else
     printf(" The %d element from the top is: %d \n", i, STK[TOP - i + 1]);
// Function to DISPLAY the Stack
void Display()
  if (TOP < 0)
     printf(" Stack is empty \n");
  else
     printf(" The element in the stack are:");
     for (i = TOP; i > -1; i--)
       printf("\n \%d \n", STK[i]);
```



}

}

