STACK OPERATION EXP 2.C

```
#include <stdio.h>
#include<stdlib.h>
#define SIZE 100
int stack[SIZE];
int top = -1;
void push();
void pop();
void display();
int main()
{
  int choice;
  while (1)
 {
    printf("BY JAYETA KENI");
   printf("\n Stack operation :\n");
   printf("1.Push(insert)\n");
   printf("2.Pop(delete)\n");
   printf("3.Display\n");
   printf("4.exit\n");
   printf("enter your choice:");
   scanf("%d",&choice);
   switch(choice)
    case 1:
    push();
    break;
   case 2:
   pop();
   break;
   case 3:
   display();
   break;
   case 4:
   printf("exiting program\n");
   exit(0);
   default:
   printf("invalid choice! please try again");
   }
```

```
void push() {
  int value;
  if (top==SIZE-1) {
     printf("stack overflow!cannot insert.\n");
  }
   else {
   printf("enter the value to push:");
   scanf("%d",&value);
   stack[++top]=value;
   printf("%d pushed onto the stack.\n",value);
 }
}
void pop()
 {
  if (top==-1)
     printf("stack underflow! nothing to delete.\n");
  }
else
   printf("%d popped from the stack.\n",stack [top--]);
}
void display()
{
  int i;
  if (top==-1) {
     printf("stack is empty!\n");
  }
 else
 {
     printf("stack elements are :\n");
  for (i=top;i>=0;i--) {
     printf("%d\n",stack[i]);
  }
}
```