```
#include<stdio.h>
int stack[50], option, n, top, x, i;
void push()
void pop()
void display()
int main()
{
 If top top=-1;
 printf("\n Enter the size of stack:");
 scanf("%d", &n);
 printf(" Stack operations:");
 printf("\t");
 printf("\n\t 1. push\n\t 2. pop\n\t 3. Display
 \n\t 4. Exit");
 do
{
 printf("\n Enter choice");
 scanf("%d", &option)
 switch(opt)
{
 case 1;
 {
  push();
  break;
  }
 case 2
  pop()
  break()
  }
  case 3
 {
  display();
  break;
  }
```

```
case 4
{
printf("\n\t EXIT POINT");
break;
  }
default
{
printf("\n\t please enter a no from (1-4)");
  }
  }
} while(choice != 4)
  return 0;
  }
void push()
{
if (top>=n-1)
{
printf ("stack overflow.");
}
else
  printf("enter a element:");
  scanf("%d", &x);
  top++;
  stack[top] = x;
    }
  }
void pop()
{
  if (top <= -1)
    printf ("stack empty");
  else
  printf ("the element deleted is", &st
  [top
```

```
top--;
}
Void display()
if (top>=0)
printf("the elements in stack are \n");
for (i=top; i>=0; i--)
    printf("\n%d", stack[i]);
    printf("press next option");
}
    else
    printf("\n stack empty");
}
}
```