1BM18CS012
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DS-lab
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Stack :

```
#include <stdio.h>
 void push(int u);
 int pop();
 top=-1;
 int st[100];
 void main()
{
  int n,u;
 printf("Enter 1: push 2: pop 3: display and -1 to exit\n");
 scanf("%d",&n);
 while(n!=-1)
{
 if(n==1)
 {
   printf("Enter the element to push\n");
   scanf("%d",&u);
   push(u);
 }
  if(n==2)
 {
    u=pop();
    printf("popped element %d\n",u);
 }
  if(n==3)
 {
  dis();
 }
  printf("Enter 1: push 2: pop 3:display and -1 to exit\n");
  scanf("%d",&n);
}
```

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```
return;
}
void push(int x)
{
    if (top==99)
     Printf("full stack\n");
     else
  {
     st[++top] =x;
   }
}
int pop()
{
   if (top==-1)
   printf("Empty stack\n");
   else
   {
     return st[top--];
    }
}
void disc()
{
    int temp=top;
    Print("the stack elements are :\n");
    if (temp==-1)
   {
     printf("Empty stack\n");
      return;
    }
     while(temp>-1)
    { printf("%d", st[temp]);
      temp--;
    }
```

printf("\n");

}

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