STACK USING DYNAMIC ARRAY

```
#include<stdio.h>
#include<conio.h>
int push(int);
void pop();
void disp();
int *stk,i,*ptr,n,top=-1,ch;
void main()
{
        clrscr();
  printf("Enter stack size\t\t");
  scanf("%d",&n);
  for(;;)
  printf("\n1. push 2.disp 3.pop 4.exit\n");
  printf("Read ch\t");
  scanf("%d",&ch);
  switch(ch)
  case 1:push(n);
  break;
  case 2:disp();
  break;
  case 3:pop();
  break;
  default:
            exit(0);
  }
  }
  getch();
void disp()
{
if(top==-1)
 printf("Empty Stack");
 else
for(i=0; i<=top;i++)
 printf("%d\t",stk[i]);
 }
 }
```

```
}
void pop()
{
  if(top==-1)
   printf("empty");
  else
  {
  printf("popped item is %d\n\n",stk[top]);
  top--;
  disp();
  }
}
int push(int n)
{
  if(top==n-1)
  printf("Stack Full");
  else
  {
  ptr=(int*) malloc(sizeof(int));
  printf("Enter ITEM");
  scanf("%d",ptr);
  stk[++top]=*ptr;
  ptr++;
  disp();
  }
  return;
}
```