```
#include<stdio.h>
int stack[100],choice,n,top,x,i;
void push(void);
void pop(void);
void display(void);
int main()
{
 printf("S. Naveen Kumar Reddy \n191911494\n");
 top=-1;
 printf("\n Enter the size of STACK[MAX=100]:");
 scanf("%d",&n);
 printf("\n\t STACK OPERATIONS USING ARRAY");
 printf("\n\t--------------------------------");
 printf("\n\t 1.PUSH\n\t 2.POP\n\t 3.DISPLAY\n\t 4.EXIT");
do
 {
 printf("\n Enter the Choice:");
 scanf("%d",&choice);
 switch(choice)
 {
 case 1:
 {
 push();
 break;
 }
 case 2:
 {
 pop();
 break;
 }
 case 3:
```

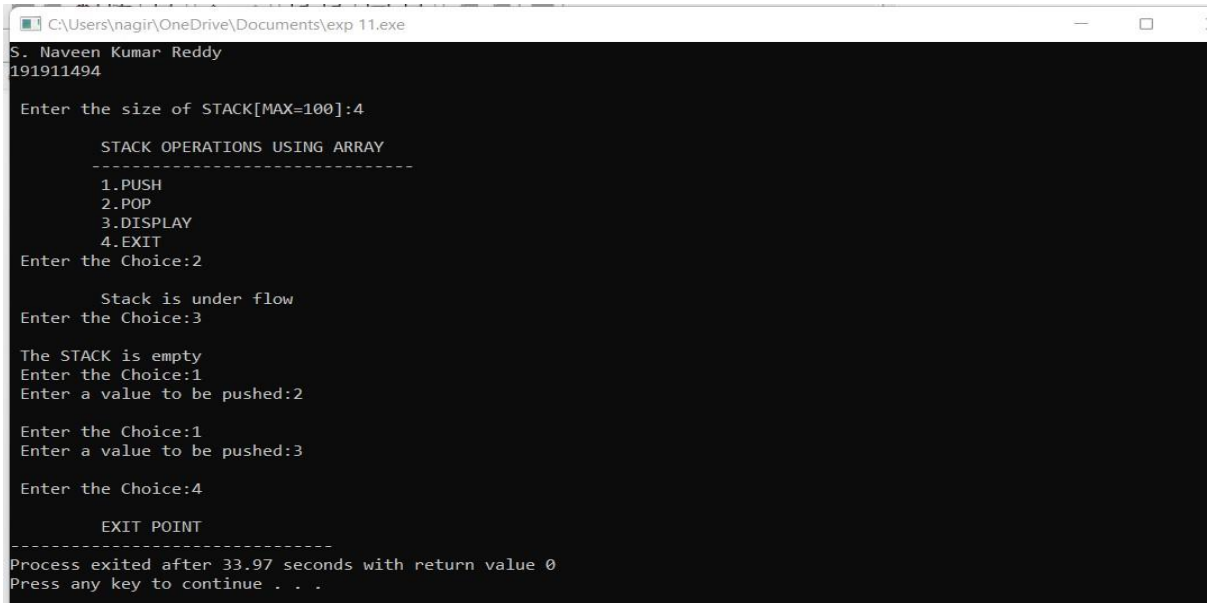
```
{
display();
break;
}
case 4:
{
printf("\n\t EXIT POINT ");
break;
}
default:
{
printf ("\n\t Please Enter a Valid Choice(1/2/3/4)");
}

}
}
while(choice!=4);
return 0;
}
void push()
{
if(top>=n-1)
{
printf("\n\tSTACK is over flow");

}
else
{
printf(" Enter a value to be pushed:");
scanf("%d",&x);
top++;
```

```
 stack[top]=x;
 }
}
void pop()
{
 if(top<=-1)
 {
 printf("\n\t Stack is under flow");
 }
 else
 {
 printf("\n\t The popped elements is %d",stack[top]);
 top--;
 }
}
void display()
{
 if(top>=0)
 {
 printf("\n The elements in STACK \n");
 for(i=top; i>=0; i--)
 printf("\n%d",stack[i]);
 printf("\n Press Next Choice");
 }
 else
 {
 printf("\n The STACK is empty");
 }

}
```


C:\Users\nagir\OneDrive\Documents\exp 11.exe
S. Naveen Kumar Reddy
191911494
Enter the size of STACK[MAX=100]:4
STACK OPERATIONS USING ARRAY
1.PUSH
2.POP
3.DISPLAY
4.EXIT
Enter the Choice:2
Stack is under flow
Enter the Choice:3
The STACK is empty
Enter the Choice:1
Enter a value to be pushed:2
Enter the Choice:1
Enter a value to be pushed:3
Enter the Choice:4
EXIT POINT
Process exited after 33.97 seconds with return value 0
Press any key to continue . . .