STACK OPERATIONS # include < stdio. h> # include < stdlib. h > int stack [10] itop=-1, i, item; # define man 9 void push () & if (top = = man - 1) f project ("Forter Florent to Pash: 1) printf("Stack Overflow In"); elser printf ("Enter Element to Push: "); xant("1.a", & item); Stack (typ) = Item; int pop() & 4 (top == -1) f m mot . printf ("Itack Moderflow 19"); item = Stack [top]; rettorn (item);

PAGE NO: Void display Of if (top = = -1) & printf ("Stack Emply in"); elses printf ("The stack is: \n"); Jon (i= top; i>-1; i--) & 1 40000 social de printf ("1.d In", stack (i); 11 Main void main () { white (1) & int aser Input; printf (" Enter (1) to Rush, (2) to Pop, (3) to Display, and (W) to exit: "); Scanf ("1.d", & wer Input); Switch (user Input) case 1: push (): loreak: cose 2: iltin = pop(); if (item 1 = -1) l print ("The Popped Element is: Y-d In", ikm, breck; case 3: display(); loreak; case 4: esuit(0) break:

Output

Enter (1) to Rush, (2) to Pop, (3) to Display, and (4) to Exit: 1 Enter Element to Push: 18

Enter (1) to Push. (2) to Pop. (3) to Display, and (4) to Exit. 1 Enter Element to Rush: 45

Enter (1) to Rush, (2) to Pop, (3) to Display, and (4) to Exit: 1 Enter Element to Push: 7

Enter (1) to Rush. (3) to Pop, (3) to display, and (4) to Enit: 1 Stack Overflow

Enter (1) to Rush, (2) to Ep, (3) to Display, and (4) to Exit: 3 The Stack is:

7

45

18

Enter (1) to Rush, (2) to Pop, (3) to Display, and (4) to enit: 2 The Popped Element is: 7

Enter (1) to Push, (2) to Pop, (3) to Display, and (4) to exit: 2 The Popped Element is: 45

Enter (1) to Push, (2) to Pop, (3) to Display, and (4) to exit: 2

Enter (1) to Push (2) to Pop, (3) to Display, and (4) to enit: 2

Stack Underflow

Enter (1) to Push, (2) to Pop, (3) to Display, and (4) to exit: 4