DS Lab KCS351 - A1

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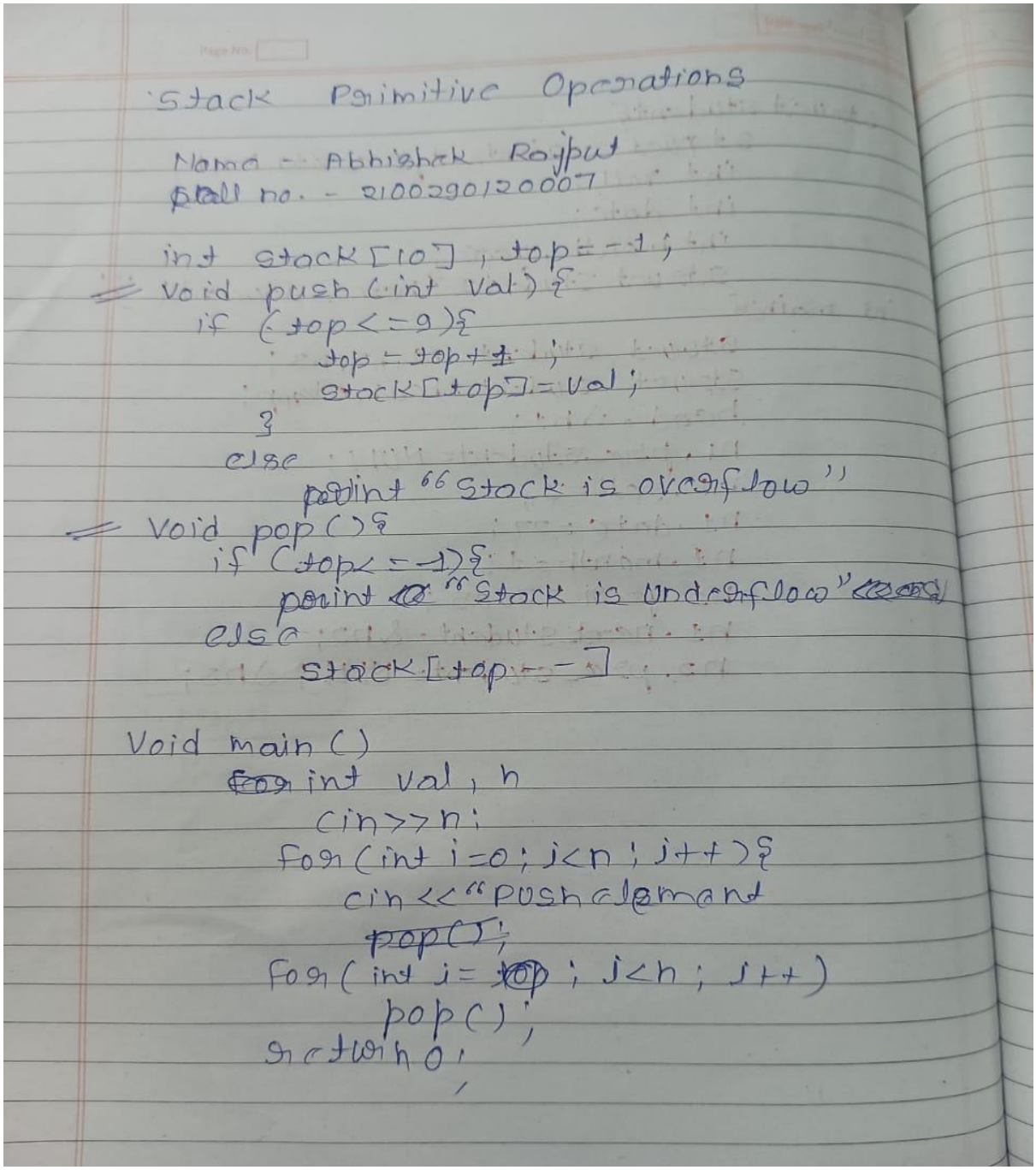
LAB 9

Program for Stack Primitive Operations



```
Stack Primitive Operations

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int stack[10], top=-1;
Void push(int val){
  if (top<=9){
      top = top+1;
      stack[top] = val;
  }
  else
      print "Stack is overflow"
Void pop(){
  if (top<=-1){
      print "Stack is underflow"
  else
      stack[top--]

Void main()
    int val, n
      cin>>n;
    for(int i=0; i<n; i++){
      cin<<"push demand
      pop();
    for(int i= top; i<n; i++)
      pop();
    return 0;
```

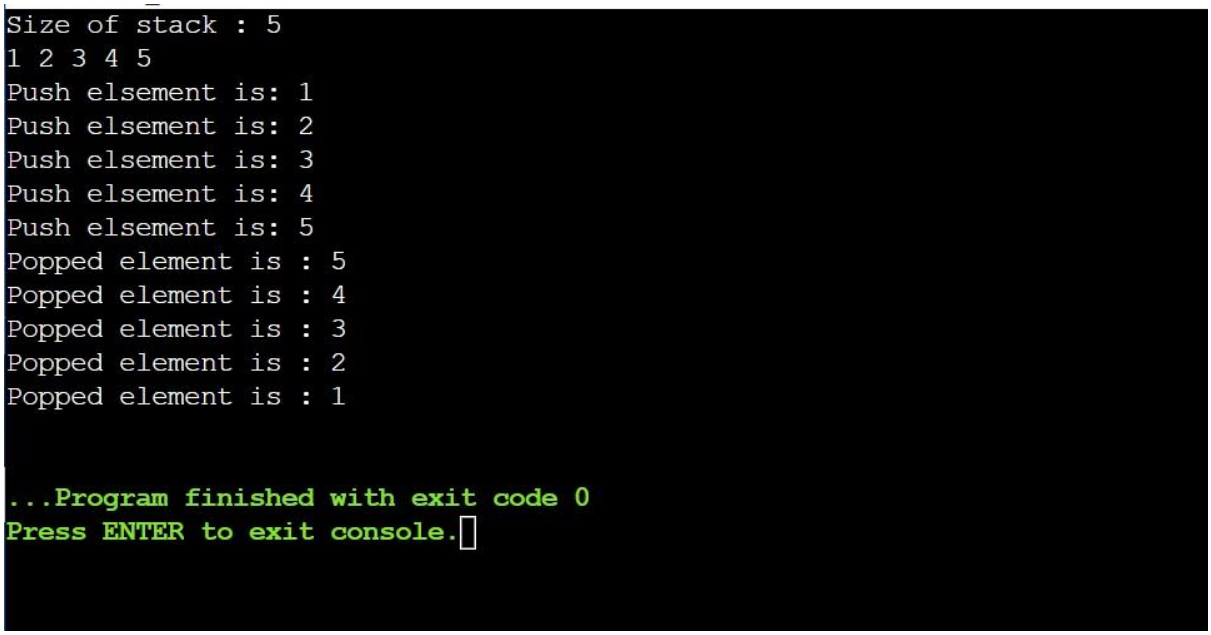
```cpp
//ABHISHEK RAJPUT
//2100290120007
#include <iostream>
using namespace std;
int stack[10],top=-1;
void push(int val){
    if(top<=9){
        top=top+1;
        stack[top]=val;
    }
    else
        cout<<"Stack is overflow"<<endl;
}
void pop( ){
    if(top<=-1){
        cout<<"Stack is underfow"<<endl;
    }
    else{
        cout<<"Popped element is : "<<stack[top--]<<endl;
    }

}
int main()
{
    int val,n;
    cout<<"Size of stack : ";
    cin>>n;

    for(int i=0;i<n;i++){
        cin>>val;
        push(val);
    }
    for(int i=0;i<n;i++)
        cout<<"Push elsement is: "<<stack[i]<<endl;
    for(int i=0;i<n;i++){
        pop();
    }
    return 0;
}

```

OUTPUT


Size of stack : 5
1 2 3 4 5
Push elsement is: 1
Push elsement is: 2
Push elsement is: 3
Push elsement is: 4
Push elsement is: 5
Popped element is : 5
Popped element is : 4
Popped element is : 3
Popped element is : 2
Popped element is : 1
...Program finished with exit code 0
Press ENTER to exit console.