```
#include <iostream>
using namespace std;
template<class T>
class Stack
private:
       int top;
       T size,*p;
public:
       Stack(T a)
               top=-1;
               size=a;
               p=new T[size];
       }
       bool push(T value)
               if(top==size-1)
                      cout<<"stack overflow"<<endl;</pre>
                      return 0;
               }
               else
               {
                      p[++top]=value;
                      return 1;
               }
       }
       T pop()
       if(top==-1)
               cout<<"stack underflow"<<endl;</pre>
       else
       T r = p[top--];
       return r;
       void display()
               for(int i=top; i!=-1; i--)
               {
                      cout<<p[i]<<'\t';</pre>
               }
               cout<<endl;</pre>
       }
};
int main()
       int option, size;
       cout<<"enter the size of your stack"<<endl;</pre>
       cin>>size;
       Stack<int> a(size);
       while(true)
       {
```

```
cout<<endl<<"enter the options"<<endl<<"1.to enter data"<<endl<<"2.to</pre>
cin>>option;
            switch (option)
            case 1:int value;
                  cout<<endl<<"enter the value";</pre>
                  cin>>value;
                  a.push(value);
                  break;
            case 2:a.display();
                  break;
            case 3:int pop;
                  pop =a.pop();
                   cout<<pop<<"is removed"<<endl;</pre>
                  break;
            case 4:cout<<"exited"<<endl;</pre>
                   return 0;
            default:cout<<endl<<"try again"<<endl;</pre>
            }
      return 0;
}
```