

**Course name: Data Structures (243COMP)**

**Quiz2**

**Student name:**

**ID\_No:**

1. Assume that  $x$ ,  $y$ ,  $z$  are integer variables and that  $s$  is a stack of integers, state the output of each program fragment.

```
1. x = 3;
   y = 5;
   z = 2;
   s.push(x);
   s.push(4);
   s.pop(z);
   s.push(y);
   s.push(3); s.push(z);
   s.pop(x);
   s.push(2);
   s.push(x);
   while(! s.isEmpty( ))
   { s.pop(x);
     cout<<x;
   }
```

2. Write a C++ program that can read a postfix expression and produce the result of it.

- You must use the template of the stack.
- Develop this program on your pc assigned to you in the lab.