```
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 1
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 2
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 3
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 4
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 5
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
enter the number to be inserted 6
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        1
stack is full, overflow
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        3
the given stac is :
6        5        4        3        2        1        enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 5 element  removing 6
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 4 element  removing 5
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 3 element  removing 4
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 2 element  removing 3
```

```
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 4 element  removing 5
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 3 element  removing 4
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 2 element  removing 3
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 1 element  removing 2
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
removing the 0 element  removing 1
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
enter your choice        2
stack is empty, underflow
enter 1 for push, 2 for pop and 3 for displaying the stack and 4 for exiting
```