Name :-

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Roll No. S20230010193

Subject :- DSA

Assignment 7

Question 1

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PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7\" ; if ($?) { gcc S20230010193
_A7.c -o S20230010193_A7 } ; if ($?) { .\S20230010193_A7 }
Choose which question to run: 1
enter length of queue: 8
Enter queue Elements: 1
3
1
3
5
3
6
7
Enter the length of sliding window: 3
Max are 3 3 5 5 6 7
```

Question 2

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7\" ; if ($?) { gcc S20230010193
_A7.c -o S20230010193_A7 } ; if ($?) { .\S20230010193_A7 }
Choose which question to run: 2
Enter the element you have to put in queue: 6
enter data: 1
2
3
4
5
6
Printing stack (used as queue): 1 2 3 4 5 6
Enter Enqueue Element: 10
stack(originally queue) after enqueue Printing stack (used as queue): 1 2 3 4 5 6 10
Dequeue element is 1
stack(originally queue) after dequeue Printing stack (used as queue): 2 3 4 5 6 10
```

Question 3

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 7\" ; if ($?) { gcc S20230010193
_A7.c -o S20230010193_A7 } ; if ($?) { .\S20230010193_A7 }
Choose which question to run: 3
Enter Number of elements to enter in queue: 5
Enter the Queue elements: 1
2
3
4
5
After doing operation the queue is: 1 4 2 5 3
```