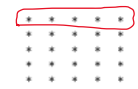
Lec4

21 January 2026 10:56 AM

Loops

1. for
2. while
3. do-while
4. foreach

Ques 1:
n = 5



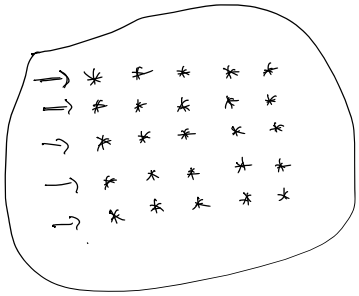
star = 5 , i = 1 2 3 4 5 6

* * * * *

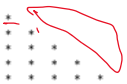
```
while(i<=star){
    cout('*');
    i++;
}
```

Ques 1:
n = 5

```
int n = 5;
int star = n;
int row = 1 2 3 4 5 6 ;   i = 1 2 3 4 5 6
while(row<=n){
    // star
    int i = 1
    while(i<=star){
        cout('*')
        i++
    }
    row++
    cout()
}
```



Ques 2:
n = 5



type of task -> 1. star

```
int n = 5
int star = 1
int row = 1
```

row = 1 2 3 4 5 6

star = 1 2 3 4 5 6

i = 1

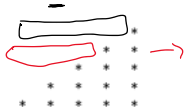
```
while(row<=n){
    int i = 1
    while(i<=star){
        cout('*')
        i++
    }
    row++
    star++
    cout()
}
```

star print

type of task → space
└→ star

```
int n = 5
int space = n-1
```

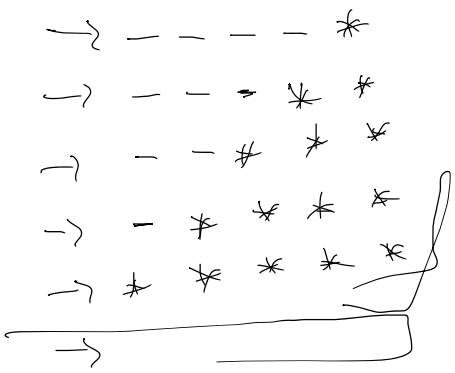
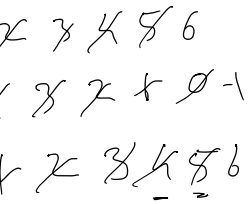
Ques 4:
n = 5



```
int n = 5
int space = n-1
int star = 1
int row = 1
```

```
while (row <= n){
  //space
  int i = 1
  while (i<=space){
    sout(" ");
    i++
  }
  //star
  int j = 1
  while (j<=star){
    sout("*");
    j++
  }
  space--
  star++
  row++

  sout()
}
```



```
row = 1
space = 4
star = 1
```