Name   :
Course No   :   **CSCE105**

1. (5 points)

   During the execution of the following program segment, how many lines of asterisks are displayed?

   ```
   for(i = 0; i < 10; i++)
       for(j = 0; j < 5; j++)
           printf("***********\n");
   ```

   Answer Box:

2. (5 points)

During the execution of the following program segment:

   (a) How many times does the first call to `printf` execute?

   (b) How many times does the second call to `printf` execute?

   (c) What is the last value displayed?

```
for(i = 0; i < 7; i++) {
    for(j = 0; j < i; i++)
        printf("%4d", i * j);
    printf("\n");
}
```

Answer Box:

3. (5 points) Rewrite the following program segment using a `for` loop:

```
count = 0;
i = 0;
while(i < n) {
    scanf("%d", &x);
    if(x == i)
        count++;
    i++;
}
```

Answer Box:

4. (5 points) What is displayed by the following code fragment when the user inputs the value 16?

```
scanf("%d", &n);
ev = 1;
while(ev <= n){
    printf("%d\n", ev);
    ev += n + 2;
}
```

Answer Box: