CS0411 INTRODUCTION TO COMPUTER SCIENCE PROGRAMMING

For Loops

1. Complete a trace table and give the output from the following loops:

```
int sum = 0;
for (int i = 1; i < 6; i++)
     sum = sum + i * i;
System.out.println(sum);
```

```
int sum = 0;
for (int i = 2; i <= 10; i = i + 2) {
     sum = 0;
     sum += i;
}
System.out.println(sum);
```

```
int s = 0;
int c = 0;
for (int i = 1; i < 7; i++) {
     s += i;
     if (i > 2)
          c = c + 1;
}
System.out.println((double)s/c);
```

2. Complete a trace table and give the output from the following code:

```
int x = 30;
for (int i = 1; i < 6; i++)  {
     System.out.print(x);
     if (x % 4 == 0)
          System.out.print(" is evenly divisible by 4\n");
     else
          System.out.print("\n");

     x -= 2;
}
```

3. Write a Java program using a **for** loop that will produce the following table

Yards	Feet	Inches
1	3	36
2	6	72
3	9	108
.	.	.
.	.	.
10	30	360

4. Write a for loop to calculate the sum: 1*2 + 3*4 + 5*6 +……. + 303*304