Write While Loops to solve the following problems....

1. Print out multiples of 5 from 0 to 4995. (0 5 10 15 ... 4995)

```
X = 5;
While (X <= 4995)
    { cout << 't' << X; X += 5; }
Cout << X;
```

2. Ask the user for an integer N, greater than 1. Loop to calculate and print the sum of the integers from 1 to N. (Do not use the mathematical formula.)

```
Cin >> N; X = 1; Sum = 0;
While ( X <= N)
    { Sum += X; X++;
Cout << Sum;
```

3. If unhindered, a population of roaches will double every 24 hours. Consider an abandoned building with 1 roach. Assuming none of the roaches die, how many days until the number of roaches reaches or exceeds 1 million?

```
Day = 1; TotalRoaches = 1;
While ( TotalRoaches < 1000000)
    { TotalRoaches *= 2; Day ++;
Cout << “On day “ << Day << “the number of roaches will be “ << TotalRoaches;
```

4. TicketSellersForLess.com has 50,000 concert tickets for sale for a July 4 concert Central park. Write a loop that asks the seller how many tickets they want (maximum of 10 per order). If the requested number of tickets are still available, sell them. If not, tell how many are available and repeat. Once the number of tickets reaches 0, stop the program.

```
Tickets = 50000; Requested = 0;
While (Tickets > 0)
    { cout << “How many tickets do you want? Enter a number 10 or less.”;
      Cin >> Requested;
      If (Requested <= Tickets)
          {Tickets -= Requested; cout << “your order is complete”;
            Else cout << “sorry there are only” << Tickets<< “left”;
      }
```