

CS112 Worksheet 5

Answer Key

1. Write a loop to out 1 to 100.

```
int s = 1;
while(s<=100)
{
    System.out.println(s);
    s = s + 1;
}
```

Another answer:

```
for(int s=1; s<=100; s++)
    System.out.println(s);
```

2. Sum up the numbers between 1 to 100.

```
int s = 1;
int sum = 0;
while(s<=100)
{
    sum = sum + s;
    s = s + 1;
}
```

Another answer:

```
int sum = 0;
for(int s=1; s<=100; s++)
    sum = sum + s;
```

3. Given a file as follows.

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The number of data is unknown but more than 100. Sum up the first 100 data.

```
int sum = 0;
```

```

int data;
for(int s=0; s<100; s++)
{
    data = input.nextInt();
    sum = sum + data;
}

```

4. For the above file, sum up all the data in the file.

```

int data;
int sum = 0;
while(input.hasNext())
{
    data = input.nextInt();
    sum += data;
}

```

5. Find the size of the above file and out it to the monitor.

```

int data;
int size = 0;
while(input.hasNext())
{
    data = input.nextInt();
    size += 1;
}

```

6. Sum up all even numbers between 0-100.

```

int s = 0;
int sum = 0;
while(s<=100)
{
    sum = sum + s;
    s = s + 2;
}

```

Another answer:

```

int sum = 0;
for(int s=0; s<=100; s+=2)
    sum = sum + s;

```

7. Given a file as follows.

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Write a segment of code to count the number of words in the above file.

```
String data;
int size = 0; // # of words
while(input.hasNext())
{
    data = input.next();
    size += 1;
}
```