1. What gets printed? Please show output as it will appear or indicate “NO OUTPUT.” If it’s an infinite loop, be sure to show at least 3 lines of output followed by “INFINITE LOOP.”

```java
int a = 4;
while (a>0)
{
    a = a + 2;
    System.out.println(a);
}
```

```java
int a = 0;
while (a <= 6)
{
    if ((a%2)==0)
        System.out.println(a);
    a++;
}
```

```java
int a = 1;
while (a < 4)
{
    System.out.println(3*a);
    a++;
}
```

```java
String word = "namaste";
System.out.println(word.length());
System.out.println("hello: " + word.charAt(1));
int n = 0;
while (n < word.length())
{
    System.out.print("x" + word.charAt(n));
    n = n + 2;
}
```

2. Given a Random object named gen, what range of values are produced by the following expressions?

- `gen.nextInt(8)`
- `gen.nextInt(30) + 100`
- `gen.nextInt(3) - 2`
1. What gets printed? Please show output as it will appear or indicate “NO OUTPUT.”
If it’s an infinite loop, be sure to show at least 3 lines of output followed by “INFINITE LOOP.”

```
int a = 4;
while (a >= 20)
{
    System.out.println(a);
    a += 5;
}
```

```
int a = 1;
while (a < 3)
{
    System.out.println(5*a);
    a++;
}
```

```
int a = 1;
while (a < 8)
{
    if ((a%2)==0)
        System.out.println(a);
    a++;
}
```

```
String word = "kumbaya";
System.out.println(word.length());
System.out.println("hello: " + word.charAt(2));
```

```
int n = 0;
while (n < word.length())
{
    System.out.print("|" + word.charAt(n));
    n++;
}
```

2. Given a Random object named gen, what range of values are produced by the following expressions?

- `gen.nextInt(3)`
- `gen.nextInt(25) + 10`
- `gen.nextInt(10) - 15`