

## Java – Tracing Practice

### Unit 3

Trace each code segment and give the output.

```
//1) //////////////////////////////////////  
for(int i = 10; i > 0; i--)  
{  
    if(i % 2 == 1)  
        System.out.print(i);  
}
```

```
//2) //////////////////////////////////////  
for(int i = 0; i < 20; i+=4)  
    System.out.print(i);
```

```
//3) //////////////////////////////////////  
for(int i = 10; i <= 20; i++)  
{  
    if(i % 2 == 0)  
        System.out.print(i);  
    if(i % 7 == 0)  
        System.out.print(i);  
}
```

```
//4) //////////////////////////////////////  
String word = "Flyers";  
char letter = ' ';  
for(int i = 0; i < word.length(); i++)  
{  
    letter = word.charAt(i);  
    if(letter == 'y' || letter == 'e' || letter == 's')  
        System.out.print(letter);  
}
```

```
//5) //////////////////////////////////////  
String team = "Flyers";  
  
for(int i = team.length() - 1; i >= 0; i--)  
    System.out.print(team.charAt(i));
```

```
//6) //////////////////////////////////////  
int max = 10, min = 0;  
while(max > min)  
{  
    if(max > 5)  
        max -= 3;  
    min += 3;  
}  
System.out.println(max);
```

//7) //////////////////////////////////////

```
String college = "";
do
{
    if(college.equals(""))
        college += "William";
    else if(college.equals("William"))
        college += " and ";
    else if(college.equals ("William and "))
        college += "Mary";
    else
        break;
}while(true);
```

System.out.println(college);

//8) //////////////////////////////////////

```
int sum = 0;

for(int i = 1; i < 4; i++)
    for(int j = 1; j < 4; j++)
        sum = i + j;
System.out.println(sum);
```

//9) //////////////////////////////////////

```
String foo = "";

for(int i = 1; i < 4; i++)
{
    for(int j = 1; j <= i; j++)
        foo += "$";

    System.out.println(foo);
}
```

//10) //////////////////////////////////////

```
int something = 0;
for(int i = 1; i <= 5; i++)
    something += i;
```

System.out.println(something);