

Tutorial - CS112 : Computer Architecture

Write the equivalent ARM assembly program for following 'c' code:

```
1. for(i=0; i < 20; i++) {  
    a = a + i;  
}
```

```
2. i = 0;  
while(i < 20) {  
    a = a + i;  
    i++;  
}
```

```
3. for(i=0; i<20; i++) {  
    if( i%2 == 0)  
        a = a + i;  
}
```

```
4. for(i=0; i<20; i++) {  
    if( (i%2 == 0) || (i>10) {  
        a = a + i;  
    } else if(i<10) {  
        a = a * i;  
    }  
}
```

```
5. switch(operation) {  
    case '+':  
        a = x + y;  
        break;  
    case '-':  
        a = x - y;  
        break;  
    case '&':  
        a = x & y;  
        break;  
    case '*':  
        a = x * y;  
        break;  
}
```