

## COMPILER DESIGN LAB

### WEEK 4 ( 8.1.19 ) - EXERCISE

#### SET A

1. Write a lex program to convert the following while statement to for statement.

```
while(condition) {  
    statement(s);  
}
```

Input:

```
x = 0;
```

```
while (x < 3) {  
  
    print x;  
  
    x = x + 1;}
```

2. Convert the given switch case statement to else if statement.

```
switch (expression)  
{  
    case value1:  
        statement1;  
        break;  
    case value2:  
        statement2;  
        break;  
    default:  
        statementDefault;  
}
```

#### SET B

1. Write a lex program to convert the following for statement to do-while statement.

```
for (<initial statement(s)>; <Condition expression>; <Repeat  
step(s)>) {  
    <Loop statement(s)>;  
}
```

Input:

```
int a = 10;  
while( a < 20 ) {  
    a++;  
}
```

2. Convert the given if-else statement to switch case.

```
if (condition)  
    statement;  
else if (condition)  
    statement;  
.  
.  
else  
    statement;
```