**Calculating Simple Interest**

INTEREST(C,r,D,B)

{

I=C\*r\*Effective Days(D,B)

}

Effective Days(D,B)

{

EDAYS=(D/B)

return EDAYS

}

**Calculating YIELD**

YIELD(FV,i,MV)

{

MV=FV;

roi=(i\*FV)/100;

for(i=1 to MV.length)

{

roi=Effective\_ROI(MV,FV);

}

}

Effective\_ROI(MV,FV)

{

EROI=roi+(MV/FV)\*100;

return EROI;

}

**Calculating Forward Rate( >1 year)**

FORWARD\_RATE2(T1,T2)

{

FR={pow(T1,T2)}-1;

}

Term1(rl,rs,N,n)

{

T1={pow(1+rl,N)/pow(1+rs,n)};

return T1;

}

Term2(N,n)

{

T2=1/(N-n);

return T2;

}

**Calculating Forward Rate(< 1 year)**

FORWARD\_RATE1(T3,T4,T5)

{

FR={(T3/T4)-1}\*T4;

}

Term3(rl,Dl,B)

{

T3={1+(rl\*(Dl\*B))}

return T3;

}

Term4(rs,Ds,B)

{

T4={1+(rs\*(Ds/B))};

return T4;

}

Term5(B,Dl-Ds)

{

T5=B/(Dl-Ds);

return T5;

}

**Calculating Present Value(< 1 year)**

PRESENT\_VALUE1(FV,T6)

{

PV=FV/T6;

}

Term1(r,D,B)

{

T6=1+(r\*(D/B));

return T6;

}

**Calculating Present Value(> 1 year)**

PRESENT\_VALUE2(FV,T7)

{

PV=FV/T7;

}

Term7(r,N)

{

T7=pow(1+r,N);

return T7;

}

**Calculating Future Value(< 1year)**

FutureValue1(PV,r,D,B)

{

FV=PV\*(1+(r\*(Effective\_days(D,B));

return FV;

}

**Calculating Future Value(> 1 year)**

FutureValue2(C,T8)

{

FV=C\*T8;

}

Term8(r,N)

{

T8=pow(1+r,N)

return T8;

}