

CONDITIONAL STATEMENTS

Exercises:

```
1) void main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d", &n);
    if(n<0)
        printf("Negative");
    if(n>0)
        printf("Positive");
    if(n==0)
        printf("Neutral");
}

2) void main()
{
    int a, b, c, gr;
    printf("Enter three numbers : ");
    scanf("%d %d %d", &a, &b, &c);
    gr=a;
    if(b>a && b>c)
        gr=b;
    if(c>a && c>b)
        gr=c;
    printf("%d is the greatest", gr);
}
```

```
}
```

3) void main()

```
{  
    int p;  
    printf("Enter percentage : ");  
    scanf("%d", &p);  
    if(p>=0 && p<40)  
        printf("Fail!");  
    if(p>=40 && p<50)  
        printf("Third Division!");  
    if(p>=50 && p<60)  
        printf("Second Division!");  
    if(p>=60 && p<=100)  
        printf("First Division!");  
}
```

4) Add another condition in the above code as:

```
if(p<6 || p>100)  
    printf("Enter valid percentage!");
```

5) void main()

```
{  
    int p, q, r;  
    printf("Enter three numbers : ");  
    scanf("%d%d%d", &p, &q, &r);  
    if(p==q && p==r)  
        printf("All are equal");  
}
```

```
    else if(p==q)
        printf("I and II are equal");
    else if(q==r)
        printf("II and III are equal");
    else if(p==r)
        printf("I and III are equal");
    else
        printf("All are unequal");
}
```

```
6) void main()
{
    int bp; float da, hra, lic, pf;
    printf("Enter basic pay : ");
    scanf("%d", &bp);
    if(bp>=0 && bp<10000)
    {
        da = 0.4*bp;
        hra = 0.2*bp;
        lic = 0.035*bp;
        pf = 0.12*bp;
    }
    else if(bp>=10000 && bp<25000)
    {
        da = 0.45*bp;
        hra = 0.25*bp;
        lic = 0.045*bp;
        pf = 0.13*bp;
    }
    else if(bp>=25000)
```

```

    {
        da = 0.5*bp;
        hra = 0.3*bp;
        lic = 0.05*bp;
        pf = 0.14*bp;
    }
    else
        printf("Basic pay should be non-negative!!!");

    if(bp>=0)
    {
        printf("Dearness Allowance = %0.2f\n", da);
        printf("House Rent Allowance = %0.2f\n", hra);
        printf("Life Insurance = %0.2f\n", lic);
        printf("Provident Fund = %0.2f", pf);
    }
}

```

7) void main()

```

{
    int c; float bill=300;
    printf("Enter total number of calls : ");
    scanf("%d", &c);
    if(c>=0 && c<=100)
        ;
    else if(c>100 && c<=200)
        bill+=(c-100)*0.75;
    else if(c>200 && c<=300)
        bill+=100*0.75+(c-200)*1.00;
    else if(c>300 && c<=400)

```

```

        bill+=100*0.75+100*1.00+(c-300)*1.25;
    else if(c>400)
        bill+=100*0.75+100*1.00+100*1.25+(c-400)*1.5;

    if(c<0)
        printf("Enter valid number of calls!");
    else
        printf("Amount = %0.2f", bill);
}

```

```

8) void main()
{
    int m1, m2, m3, t;
    float p;
    printf("Enter marks of three subjects : ");
    scanf("%d%d%d", &m1, &m2, &m3);

    t=m1+m2+m3;
    p=t/300.0*100;

    printf("Total = %d\n", t);
    printf("Percentage = %0.2f\n", p);

    if(m1>=40 && m2>=40 && m3>=40 && p>=50)
        printf("Pass!");
    else
        printf("Fail!");
}

```

9) `n<0?printf("Negative"): n==0?printf("Neutral"): printf("Positive");`

10) `a==b && a==c? printf("All are equal"): a==b ? printf("I and II are equal"): a==c ? printf("I ans III are equal"): b==c ? printf("II ans III are equal"): printf("All are unequal!");`

Aptitude Questions:

- 1) Error! (break can be used only within a loop or switch-case)
- 2) Non-zero!
- 3) Yes
- 4
- 4) Equal!
- 5) Error! (lvalue required as left operand of assignment)