

SWITCH-CASE CONTROL

Exercises:

```
1)  int num, ch, i, c=0, sum;
    printf("Enter a number : ");
    scanf("%d", &num);
    printf("1 – Check if prime\n");
    printf("2 – Check if composite\n");
    printf("3 – Check if perfect\n");
    printf("4 – Exit\n");
    printf("Enter your choice : ");
    scanf("%d", &ch);

    switch(ch)
    {
        case 1:
            for(i=1; i<=num; i++)
                if(num%i==0)
                    c++;
            if(c==2)
                printf("Prime number!");
            else
                printf("Not a prime number!");
            break;
        case 2:
            for(i=1; i<=num; i++)
                if(num%i==0)
                    c++;
```

```

        if(c!=2)
            printf("Composite number!");
        else
            printf("Not a composite number!");
        break;
case 3:
    for(i=1; i<=num/2; i++)
        if(num%i==0)
            sum+=i;
    if(sum==num)
        printf("Perfect number!");
    else
        printf("Not a perfect number!");
    break;
case 4:
    exit(0);
default:
    printf("Enter a valid choice!");
}

```

```

2)  int rev=0, rem, n;
    printf("Enter a number : ");
    scanf("%d", &n);
    while(n>0)
    {
        rem=n%10;
        rev=rev*10+rem;
        n=n/10;
    }
    while(rev>0)

```

```
{
    switch(rev%10)
    {
        case 0:
            printf("Zero ");
            break;
        case 1:
            printf("One ");
            break;
        case 2:
            printf("Two ");
            break;
        case 3:
            printf("Three ");
            break;
        case 4:
            printf("Four ");
            break;
        case 5:
            printf("Five ");
            break;
        case 6:
            printf("Six ");
            break;
        case 7:
            printf("Seven ");
            break;
        case 8:
            printf("Eight ");
            break;
```

```
        case 9:
            printf("Nine ");
        }
    rev=rev/10;
}
```

Aptitude Questions:

- 1) 9 14 19
- 2) This is case 2!
This is case 3!
- 3) Run out!
- 4) FC Barcelona
Real Madrid
Valencia CF
Sevilla FC
- 5) Error! (case label does not reduce to an integer constant)