

⇒ Conditional statements

↳ these are used to trigger a code at a particular condition.

if statement :- ^{syntax}

```
if ( condition ) {  
    // statement  
}
```

else statement :-

```
if ( condition ) {  
    // statement  
} else {  
    // statement  
}
```

else if statement :-

```
if ( condition ) { ✓  
} else if ( condition ) { ✓  
} else if ( condition ) {  
} else {  
}
```

Note:- if else condition checks from top to bottom.

Ques WAP to input age of a person in integer form and print if he/she is adult or not.

```
int age = scn.nextInt();  
if ( age > 18 ) {  
    Syso ( "You are an adult");  
} else {  
    Syso ( "You are not an adult");  
}
```

↳ Palindrome :-

↳ string or number which is same from forward and backward as well.

1 2 3 2 1 , abcba , Nayan

Ques Input a 3 digit no. and check if it is a palindrome.

num = 123;

int num1 = num/100; // 1 ✓

int num2 = num%100; // 23

int num3 = num2/10; // 2 ✓

int num4 = num2%10; // 3 ✓

int rev = num4*100 + num3*10 + num1;

if (num == rev) {

 Sys("Pali");

} else {

 Sys("Not");

}

Ques WAP to input a 3 digit no. and check if it is a armstrong no.

(armstrong no. is when sum of its digits along with power of its count of digits.)

$$\begin{aligned} 153 &= 1^3 + 5^3 + 3^3 \\ &= 1 + 125 + 27 \\ &= 153 \end{aligned}$$

$$\begin{aligned} 9474 &= 9^4 + 4^4 + 7^4 + 4^4 \\ &= 6561 + 256 + 2401 + 256 \\ &= 9474 \end{aligned}$$

Ques Input SP and CP and Print profit or loss.
 ↓ ↓
 selling price cost price

Ques Input a character of alphabets and check if it is a vowel or a consonant

('a', 'e', 'i', 'o', 'u', 'y', 'z')

Ques Input month no and check how many days are there in that month
(Ignore leap year)

→ Switch statement

Syntax

```
switch ( condition )
```

```
    case 1 :  
        //statements  
        break;
```

```
    case 2 :  
        //statement  
        break;
```

```
    case 3 :  
        //stat —  
        break;
```

```
    default :  
        //statement
```

//H.W

Try all 1st page
Question in hackerrank
list