

- Write a C++ program to display the day of a week using switch statement.

```
Ans) #include <iostream.h>
void main( )
{
  int a;
  cout << "enter the input ";
  cin >> a;
  switch(a)
  {
    case 1 :
      cout << "sun";
      break;
    case 2 :
      cout << "mon";
      break;
    case 3 :
      cout << "tue";
      break;
    case 4 :
      cout << "wed";
      break;
    case 5 :
      cout << "thur";
      break;
    case 6 :
      cout << "fri";
      break;
    case 7 :
      cout << "sat";
      break;
    default :
      cout << "invalid";
  }
}
```

- Write a C++ program to check whether a given character is a vowel or not.

Ans)

```
#include <iostream.h>
void main( )
{
char a;
cout << "enter the character";
cin >> a;
switch (a)
{
case 'a':
case 'e':
case 'i':
case 'o':
```

```
case 'u':
case 'A':
case 'E':
case 'I':
case 'O':
case 'U':
cout << "character is a vowel";
break;
default:
cout << "not a vowel";
} }
```

- Difference between switch and else if ladder.

switch statement	Else if ladder
* Evaluates conditions with equality operator only.	* Evaluates any relational or logical expressions.
* case constant must be an integer or a character type value.	* conditions may include range of values and floating point constants
* when no match is found default statement is executed.	* when no expression evaluates to true else block is executed.
* Break statement is required to exit from switch statement.	* Program control automatically goes out after the completion of a block.
* More efficient when the same variable or expression is compared against a set of values for equality	* more flexible and versatile compared to switch.

conditional operator:- It is a ternary operator and it is an alternative for if else construct. The syntax is given below.

expression 1? expression 2: expression 3;

or

expression 1? Value if true : value if false;

Here expression 1 will be evaluated if it true expression 2 will be executed otherwise expression 3 will be executed.

Eg.

`n>0?cout<<n<<" is positive":cout<<n<<" is negative";`

Write a program to find the largest of 3 numbers
3 നമ്പറിൽനിന്നും വലുത് കണ്ടുപിടിക്കുന്നതിനുള്ള പ്രോഗ്രാം
എഴുതുക.



```
#include<iostream>
using namespace std;
int main()
{
int a,b,c;
cout<<"Enter three numbers";
cin>>a>>b>>c;
if (a>b && a>c)
    cout<<a<<" is large";
else if (b>a && b>c)
    cout<<b<<" is large";
else
    cout<<c<<" is large";
}
```

```

#include<iostream>
using namespace std;
int main( )
{
int n;
cout<<"Enter a number in between 1-7";
cin>>n;
switch(n)
{
case 1: cout<< "Sunday";break;
case 2: cout<< "Monday";break;
case 3: cout<< "Tuesday";break;
case 4: cout<< "Wedesday";break;
case 5: cout<< "Thursday";break;
case 6: cout<< "Friday";break;
case 7: cout<< "Saturday";break;
default : cout<<"Invalid"
}
}

```

Rewrite the above code using if else if ladder.

മുകളിൽ കൊടുത്തിട്ടുള്ള code if-else-if ladder ഉപയോഗിച്ച് വിവരമെഴുതുക.



```

#include<iostream>
using namespace std;
int main( )
{
int n;
cout<<"Enter a number in between 1-7:";
cin>>n;
if(n==1)
    cout<< "Sunday";
else if(n==2)
    cout<< "Monday";
else if(n==3)
    cout<< "Tuesday";
else if(n==4)
    cout<< "Wedesday";
else if(n==5)
    cout<< "Thursday";
else if(n==6)
    cout<< "Friday";
else if(n==7)
    cout<< "Saturday";
else
    cout<<"Invalid";
}

```