

* Assignment 4.2

1] Discuss the general structure of nested conditional statements.

→ if (condition)
{

if (condition)
{

// code

}

else
{

// code

}

}

else
{

if (condition)

```
    { // code }  
else  
    { // code }  
}
```

2] Give an example of situation where multiple conditions require nested if-else statements
→ Find max number.

```
int a, b, c, d;
```

```
if (a > b)
```

```
{
```

```
    if (a > c)
```

```
    {
```

```
        cout >> "a is max" >> endl;
```

```
    }
```

```
    if else (a > d)
```

```
    {
```

```
        cout >> "a is max" >> endl;
```

```
    }
```

```
if else (c > d)
```

```
{
```

```
    cout >> "c is max" >> endl;
```

```
}
```

```
else
```

```
{
```

```
    cout >> "d is max" >> endl;
```

```
}
```

```
if else (b > c)
```

```
{
```



```

if (b > d)
{
    cout >> d is max >> endl;
}
if else (c > d)
{
    cout >> c is max >> endl;
}
else
{
    cout << d is max << endl;
}
if else (c > d)
{
    cout >> c is max >> endl;
}
else
{
    cout >> d is max >> endl;
}
}
}

```

what is a flowchart and how does it fit in program design.

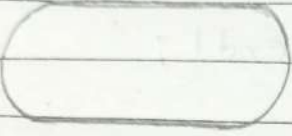
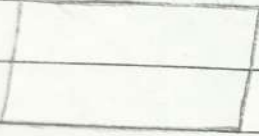

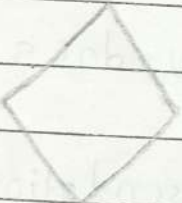

Flowchart is a graphical representation of a process or algorithm.

- it uses different shapes to represent different types of steps, decisions, and actions involved in a process.
- flowchart are widely used in various fields including computer programming, business processes engineering and education to visual

depict and document the flow of a process

4] Explain the standard symbols used in flowchart

Shapes in Flowcharts

shape	name	Description
	start / end symbol oval	used to represent the start or end of a process
	process symbol	Represents a process or action.
	input / output parallelogram	Represent input or output operations.
	decision symbol	indicates a decision or branching point where a question is asked and the flow may diverge based on the answer.
	connector symbol	used to connect lines indication that the flow continues on another part of the page

{

comment / note
symbolThis symbol adds bedded
explanation or comments
within the specified range.