The Conversion Of Flowchart To C Program(Source Code) A New Coding Technique For Learners

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Abstract:-
Theoretical approach to convert flow chat in program (C/C++/JAVA/Python- Coding Technique This concept makes the student to write the program by themselves.

Main Moto is to develop logic design and coding into corresponding programming language.

1) Teaching model : Airport traffic model
2) Goal model   : single pole basket ball model
3) Coding model   : flow chart to program convertion

Problem Analysis and Design(PAD)

1) Understand the Problem Thoroughly
2) Is there any Symbol or is there any formulae or is there any shortcut, if any.,
3) Design of an Algorithm or Design of a flow chart

I invented an E-diagram (Johnson K' E- Diagram) to develop an Algorithm / Flowchart.
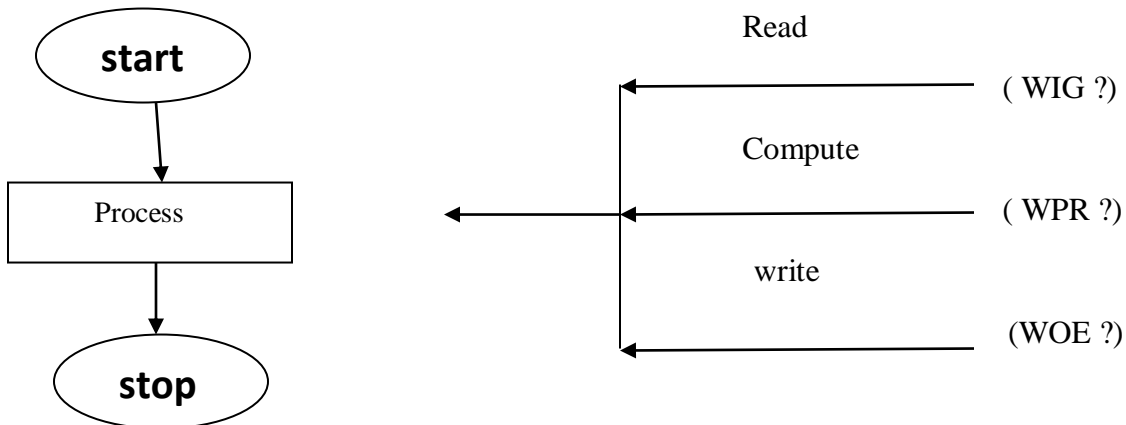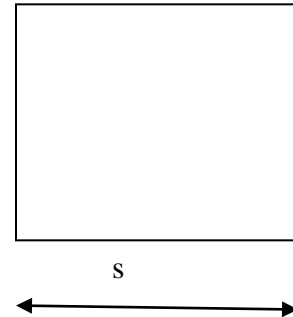

Where as :

 WIG is What are Inputs Given

WPR is What is the Process Require

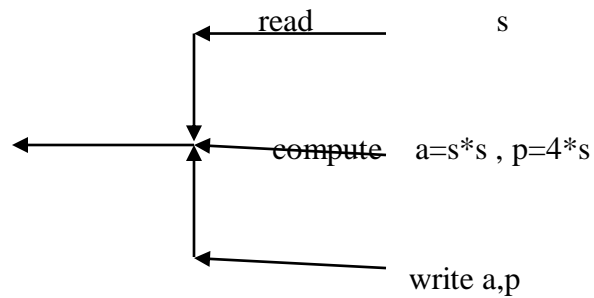WOE is What are the outputs expected?

Design of Algorithm (DOA)

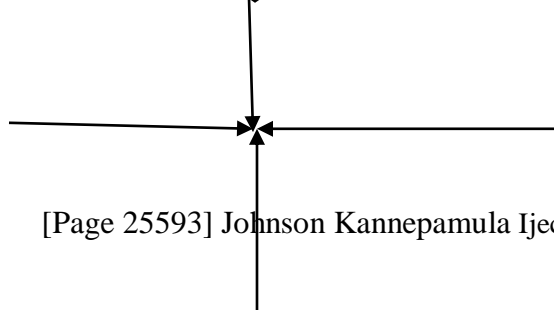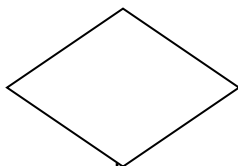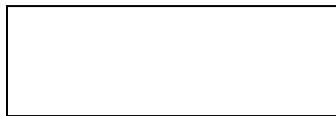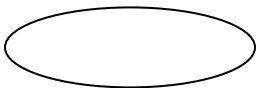Ex: Write an algorithm to find out the area and perimeter of a square.

start

1) read s
2) A=s *s
3) P=4*s
4) write a,p

stop

read   s

~~compute~~   a=s*s , p=4*s

write a,p

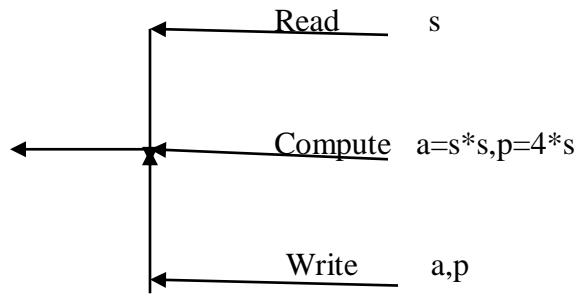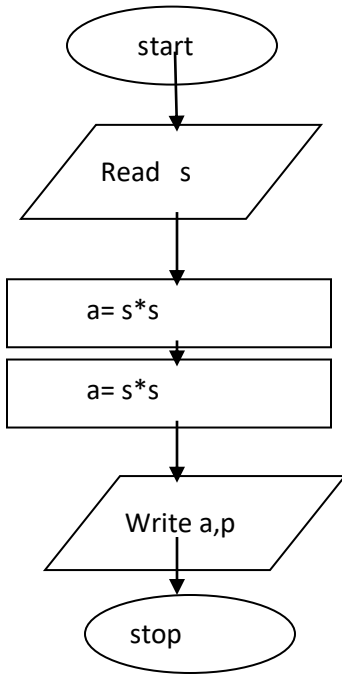| symbol	Description
	start/stop
	Read / Write
	Processing Box
	Decision Box
	Flow of direction symbols

DESIGN OF FLOW CHART(DOF)

Ex: Draw a flowchart to find out the area and peri meter of a square.

start

Read s

a= s*s

a= s*s

Write a,p

stop

Read   s

Compute   a=s*s,p=4*s

Write   a,p
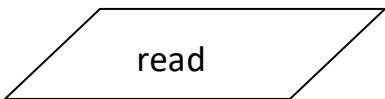
Coding (from flowchart to source code)

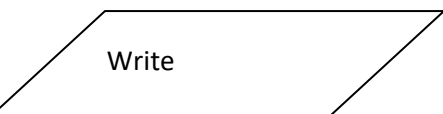Flow chart symbol   equalent code in source code

START   void main(){

read   scanf()

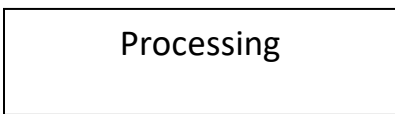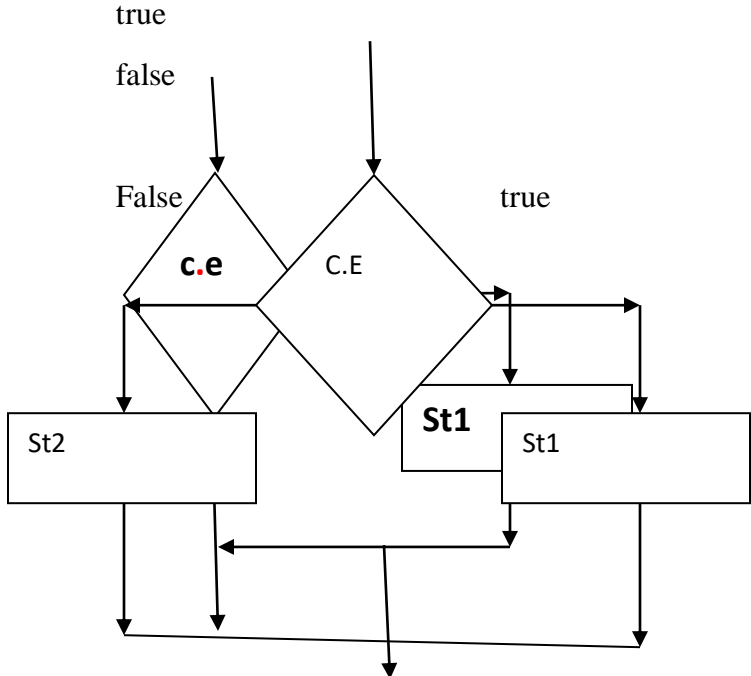Write   printf()

Processing   Assignment statement

stop

Variable={variable/value/expression};   ;

true

false

If(c.e) st1;

False   true

c.e   C.E

St1

St2   St1

If (c.e)   st1;

else   st2;
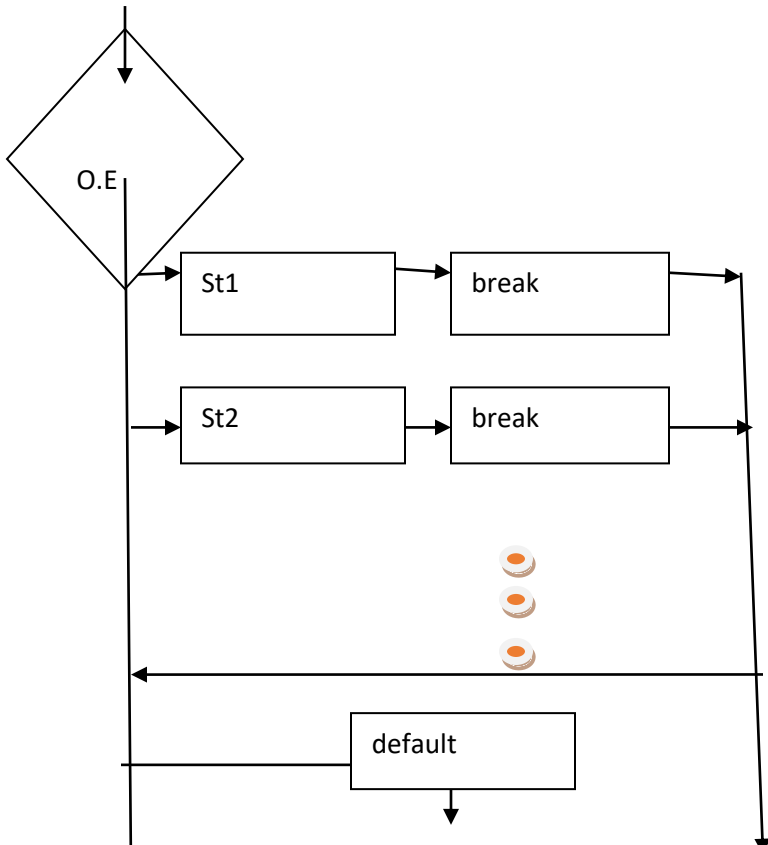
switch(o.e)

{

Case   ord1: st1;break;

Case   ord2 : st2;break;

.

.

.

O.E

St1   break

St2   break

Case   ordn : stn;

Default : dst;

}

default
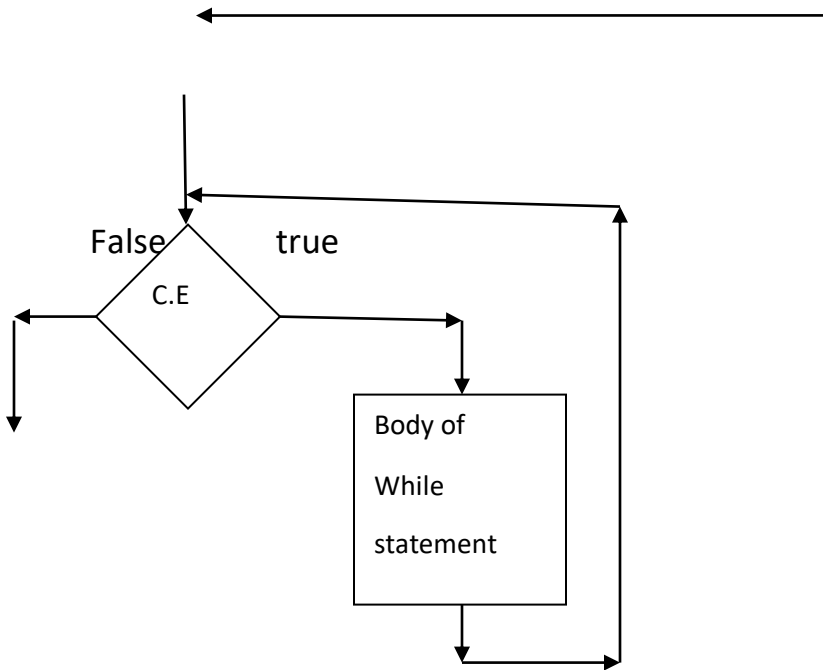
I.s;

While(c.e)

{

St1;

St2;

.

.

.

Stn;

}

i.s;

do

{

St1;

St2;

.

.

.

Stn;

}while(c.e);

for(v=iv;c.e;inc/dec)

{

```
                                    St1;

                                    St2;

                                    .

                                    .

                                    .

                                    Stn;

                                    }
```
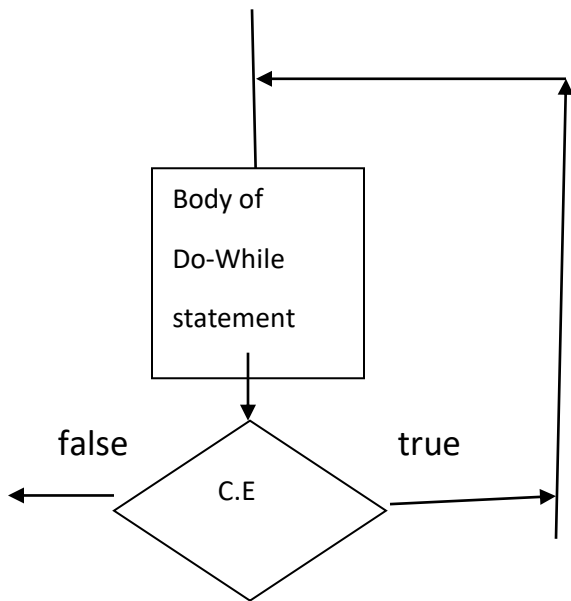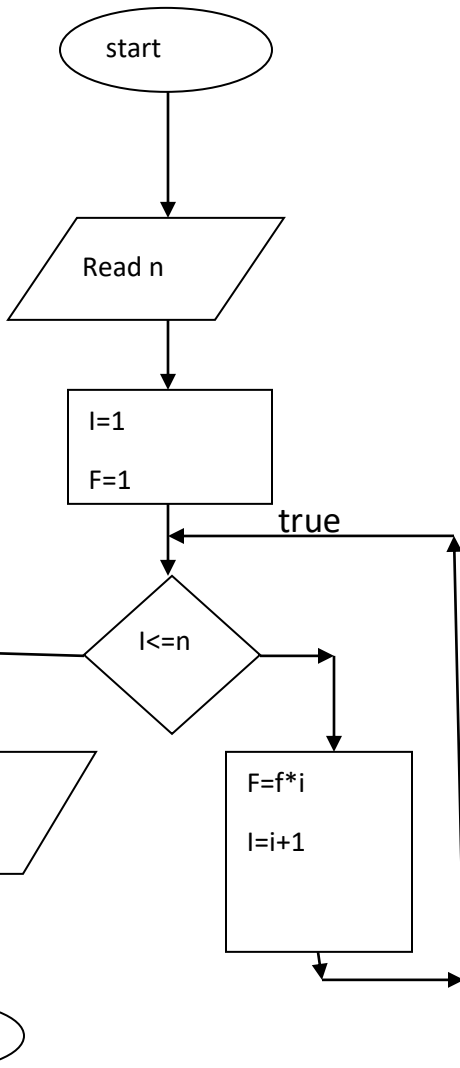
Flow chart	C source code

```
start
```

```
Read n
```

```
I=1
F=1
```

false   true

```
I<=n
```

```
Write f
```

```
F=f*i
I=i+1
```

```
stop
```

C source code:

```c
Void main() {
Int i,f,n;
Printf("enter n value");
scanf("%d",&n);
I=1;
F=1;
while(i<=n)
            {
F=f*i;
I=i+1;
}
Printf("%d!=%d\n",n,f);
}
```

My invention is:

1) **PAD**
2) **Johnson.k's E diagram**
3) **coding**

Sir, i tested practically i got hundred percent results. So it is well suitable for training purpose. i hope your encouragement shall be there for publication for this concept in your esteemed journal sir. In future I can write a Text BOOK based on this Coding technique sir.

Thanking you sir for giving me an opportunity to submit my theoretical concept on coding techniques (flow chart to source code conversion)