­­No: 10 Gen: 10 Group: 1

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Flowchart

1. Draw the symbol for a terminal in a flowchart and briefly explain its purpose.

-Terminal is used for indicating the start or end of the flowchart or process.

1. Draw the symbol for a control flow in a flowchart and briefly explain its purpose.

-Control flow is used for indicating the direction of flowchart.

1. Draw the symbol for a decision in a flowchart and briefly explain its purpose.

-Decision is used for asking the question and there are only two answers, yes or no.

1. Draw the symbol for an input/output in a flowchart and briefly explain its purpose.

-Input/Output is used for input data and output data.

1. Draw the symbol for a connector in a flowchart and briefly explain its purpose.

-Connector is used for connecting the flowchart between two pages.

1. Draw the symbol for a process in a flowchart and briefly explain its purpose.

-Process is used for indicating any type of operations, like arithmetic opearation, logical, relational, etc.

1. Draw a flowchart to check if a given number is prime or not.

number == 1

Enter “number”

Yes

No

Print “It’s not a prime number”

End

Start

Declare number, i,

check = 1

Declare i = 2

No

Yes

Yes

No

End

Print “It’s a prime number”

Print “It’s not a prime number”

check == 0

i++

check = 0

number % i == 0

i < number

1. Given the following C program, draw a flowchart to represent its logic.

Start

Declare num,

sum = 0

Enter “num”

sum = num \* (num+1) / 2

Print “sum”

End

1. Draw a simple flowchart representing a program to calculate a rectangle’s area.

Start

Declare length, width, area

Enter “length”

Enter “width”

B

area = length \* width

B

Print “area”

End

1. Draw a flowchart representing a program that determines the letter grade of a student based on their exam scores.

Start

Declare score

End

Print “Grade A”

Yes

Enter “score”

No

C

Score >= 90

C

(score >= 80) && (score < 90)

No

(score >= 70) && (score < 80)

No

(score >= 60) && (score < 70)

No

End

Print “Grade B”

Yes

c

End

Print “Grade C”

Yes

Print “Grade D”

Yes

Print “Grade F”

End