

WRITE A PROGRAM TO CHECK A 4 DIGIT NO. TO BE DIVISIBLE BY 9 OR NOT TO BE DIVISIBLE BY 9 OR NOT WITHOUT USING MODULUS OPERATOR .WRITE THE FLOWCHART OF THE PROGRAM .

$A \% B = A - (A / B) * B$ [HINT]

source code-

```
#include<stdio.h>
int main()
{
int a,remainder,sum=0;
printf("enter the four digit num");
scanf("%d",&a);
while(a>0)
{
remainder=a-((a/10)*10);
sum=sum+remainder;
a=a/10;
}
if(sum-9*(sum/9)==0)
{
printf("divisible by 9");
}
else
{
printf("not divisible by 9");
}
return 0;
}
```

Output-

Enter the four digit num 3528
Divisible by 9

Algorithm-

Step 1:start

Step 2:input a,remainder,sum=0

Step 3: enter four digit num

Step 4:read a

Step 5:while a not equal to 0

- Remainder=a-((a/10)*10)
- Sum=sum +remainder
- a=a/10

step 6:if sum-9*(sum/9)==0)

step 7:print its divisible by 9

step 8:print its not divisible by 9

step 9:stop.

Flowchart:

