

statement code :- Addition of digits from given Number:

```
void main() {
```

```
    int num, rem, sum = 0;
```

```
    printf("Enter Number: ");
```

```
    scanf("%d", &num);
```

```
    int num1 = num;
```

```
    while (num1 != 0) {
```

```
        rem = num % 10;
```

```
        sum = sum + rem;
```

```
        num = num / 10;
```

```
}
```

```
    printf("Addition of digits from Number %d",
```

```
        is %d", num1, sum);
```

```
}
```

Program

num	sum	rem	num1=0	rem%10	sum+=rem	num1=10 or
521	0	0	521!=0✓	rem=1	sum=0+1=	52
21	1	1	21!=0✓	rem=2	sum=3	5
5	3	2	5!=0✓	rem=5	sum=8	0
0	8	5	0!=0 X			

8
10

* continue statement:-

void main() {

① Using for loop

```
for (int i=1; i<=10; i++) {
```

```
    if (i%2==0)
```

```
        continue;
```

```
    else
```

```
        printf("%d\n", i);
```

```
}
```

② Using while loop:

```
int i=1;
```

```
while (i<=10) {
```

```
    if (i%2==0)
```

```
        continue;
```

```
    else {
```

```
        printf("%d\n", i);
```

```
}
```

```
i++;
```

```
}
```

Dry Run - For

1	$i <= 10$	$i \% 2 == 0$	if	0 P	$i++$
1	$i <= 10 \checkmark$	$i \% 2 == 0 \times$		1	2
2	\checkmark	\checkmark			3
3	\checkmark	\times		3	4
4	\checkmark	\checkmark			5
5	\checkmark	\times		5	6

i	$i \mod 2 == 0$	Op	$i++$
6	✓	✓	7
7	✓	✗	8
8	✓	✓	9
9	✓	✗	10
10	✓	✓	11
11	✗		

संयोजित - नियमित

:-

$i \mod 2 == 0$

$i \mod 2 == 0$

Op

③

void main()

int i=1;

while(~~(i % 5 == 0 && i % 15 == 0)~~) {

void main()

int i=1;

while(i >= 100) {

if($i \% 5 == 0$ && $i \% 15 == 0$) {

printf("Number div. by 5 & 15:", i);

else

continue;

i++;

}

}