Que 1) calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates.

```c
#include<stdio.h>
void main()
{
    int num,i,sum=0;
    for(i=1;i<=10;i++)
      {
          printf("enter nos");
          scanf("%d",&num);
          if(num<0)
          break;
          sum+=num;
      }
printf("sum is %d",sum);

}
```

Output)
enter nos5
enter nos7
enter nos4
enter nos8
enter nos-6
sum is 24

Que 2) calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result.

```c
#include<stdio.h>
void main()
{
    int num,i,sum=0;
    for(i=1;i<=10;i++)
      {
          printf("enter nos");
          scanf("%d",&num);
          if(num<0)
          continue;
          sum+=num;
      }
printf("sum is %d",sum);

}
```

Output)
enter nos1
enter nos1
enter nos1
enter nos1
enter nos1
enter nos1
enter nos1
enter nos-1
enter nos1
enter nos1
sum is 9

Que 3) take input from the user until he/she enters zero. (Using Break)

```c
#include<stdio.h>
void main()
{
    int i,m=0;
    do
    {
       printf("enter any no");
       scanf("%d",&i);
       if(i==0)
       break;
    } while (1);
    printf("Number is %d so you can't enter any more",m);
}
```

Output)
enter any no5
enter any no8
enter any no9
enter any no-1
enter any no-3
enter any no0
Number is 0 so you can't enter any more

Que 4) check whether the given number is prime or not.(Using Break)

```c
#include <stdio.h>
int main() {
    int n, i, flag = 0;
    printf("Enter a positive no: ");
    scanf("%d", &n);
    for (i = 2; i <= n / 2; ++i) {
        if (n % i == 0) {
            flag = 1;
            break;
        }
    }
     if (n == 1) {
        printf("1 is neither prime nor composite.");
    }
    else {
        if (flag == 0)
            printf("%d is a prime number.", n);
        else
            printf("%d is not a prime number.", n);
    }
return 0;
}
```

```
Enter a positive integer no: 3
3 is a prime number.
Enter a positive integer: 8
8 is not a prime number.
Enter a positive integer: 1
1 is neither prime nor composite.
```

Que 5) print sum of odd numbers between 0 and 10. (Using Continue)

```c
#include<stdio.h>
int main()
{
  int n, sum=0;
  printf("Enter n value: ");
  scanf("%d",&n);
  for(int i=1; i<=n; i=i+2)
  {
    sum += i;
  }
  printf("Sum of odd numbers from 1 to %d is: %d\n", n, sum);
  return 0;
}
```

Que 6) check whether the given number is prime or not.(Using Continue)

```c
 Using function:-
#include <stdio.h>
int prime();
void main()
{
int num,res=0;
printf("\nEnter a no.: ");
scanf("%d",&num);
res=prime(num);
if(res==0)
printf("\n%d is a prime no.",num);
else
```

```
printf("\n%d is not a prime no.",num);
}
int prime(int n)
{
int i;
for(i=2;i<=n/2;i++)
{
if(n%i!=0)
break;
else
return 1;
}
return 0;
}
```

```
Enter a no.: 4

4 is not a prime no.

Enter a no.: 5

5 is a prime no
```

Que 7) print all even numbers from 1 to 100. (Using Continue)

```
#include<stdio.h>
int main()
{
  for (int i=1;i<=100;i++)
  {
    if(i%2!=0)
    continue;
    {
      printf("%d\n",i);
    }
  }
  return 0;
}
```

Que 8) print numbers from 1 to 10 using goto statement. (Using goto)

```
#include <stdio.h>
int main()
{
int c=1;
int n;
printf("Enter the value of n: ");
scanf("%d",&n);
start:
printf("%d ",c);
c++;
if(c<=n)
goto start;
return 0;
}
```

```
Enter the value of n: 10
1 2 3 4 5 6 7 8 9 10
```

Que 10) check if a number is even or not. (Using goto)

```c
#include <stdio.h>
#include <stdlib.h>
void main()
{
    int num;
    printf("Enter a number\n");
    scanf("%d", &num);
    if (num % 2 == 0)
        goto even;
    else
        goto odd;
even:
    printf("%d is even\n", num);
    exit(0);
odd:
    printf("%d is odd\n", num);
}
```

```
Enter a number
4
4 is even
Enter a number
5
5 is odd
```