Assignment 6

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Assignment 6
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Q1)calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates
PROGRAM

```
#include
int main()
{
int number, i, sum=0;
for(i=1;i<=10;i++)
{
printf("Enter number: ");
scanf("%d",&number);
if( number<0 )
break;
sum += number;
}
printf("Sum=%d",sum);
return 0;
}
```

OUTPUT:1
Enter number: 10
Enter number: 20
Enter number: 30
Enter number: 40
Enter number: 50
Enter number: 60
Enter number: 70
Enter number: 80
Enter number: 90
Enter number: 100
Sum=550
output:2
Enter number: 35
Enter number: -35
Sum=35
Q2)calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result.

```c
#include
int main()
{
int number, i, sum=0;
for(i=1;i<=10;i++)
{
printf("Enter number: ");
scanf("%d",&number);
if( number<0 ) //-ve numbers are skipped
continue;
sum += number; //sum = sum + number
}
printf("Sum=%d",sum);
return 0;
}
```
OUTPUT:
Enter number: 10
Enter number: -10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Sum=90

Q3)take input from the user until he/she enters zero. (Using Break)
```c
#include
int main()
{
int a;
while (1)
{
printf("enter the number:");
scanf("%d", &a);
if ( a == 0 )
break;
}
return 0;
}
```
OUTPUT
enter the number:49
enter the number:90
enter the number:0

Q4)check whether the given number is prime or not.(Using Break)
```c
#include
int main()
{
int i,n, count = 0;
printf("enter a number:");
scanf("%d",&n);
for(i=2 ; i < n ; i++) {
if(n%i == 0) {
count = count+1;
```

```c
break;
}
}
if(count == 2) {
printf("%d is a prime number", n);
}else{
printf("%d is not a prime number", n);
}
return 0;
}
```
OUTPUT
enter a number:7
7 is not a prime number

Q5)print sum of odd numbers between 0 and 10. (Using Continue)
```c
#include
int main()
{
int number, i, sum=0;
for(i=1;i<=10;i++)
{
printf("Enter number: ");
scanf("%d",&number);
if( number%2==0 )
continue;
sum += number;
}
printf("Sum=%d",sum);
return 0;
}
```
OUTPUT
Enter number: 1
Enter number: 2
Enter number: 3
Enter number: 4
Enter number: 5
Enter number: 6
Enter number: 7
Enter number: 8
Enter number: 9
Enter number: 10
Sum=25

Q6) check whether the given number is prime or not.(Using Continue)
```c
#include
int main()
{
int i,n, count = 0;
printf("enter a number:");
scanf("%d",&n);
for(i=2 ; i < n ; i++) {
if(n%i == 0) {
count = count+1;
continue;
}
}
if(count == 2) {
```

```c
printf("%d is a prime number", n);
}else{
printf("%d is not a prime number", n);
}
return 0;
}
```
OUTPUT
enter a number:37
37 is not a prime number

Q7)print all even numbers from 1 to 100. (Using Continue)
```c
#include
int main()
{
int n;
printf("Even numbers between 1 to 100\n");
for(n= 1; n <= 100; n++) {
if(n%2 == 0) {
continue;
}
printf("%d ",n);
}
return 0;
}
```
OUTPUT
Even numbers between 1 to 100
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59
61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97
99

Q8)print numbers from 1 to 10 using goto statement. (Using goto)
```c
#include
int main()
{
int count,n;
printf("Enter value of n: ");
scanf("%d",&n);
count =1;
start:
printf("%d ",count);
count++;
if(count<=n)
goto start;
return 0;
}
```
OUTPUT
Enter value of n: 10
1 2 3 4 5 6 7 8 9 10

Q9)Program to calculate the sum and average of positive numbers, If the user enters
a negative number, the sum and average are displayed. (Using goto)

```c
#include
int main()
{
int n, sum=0,avg;
start:
printf("Enter a number: ");
```

```c
scanf("%d",&n);
if(n<0)
goto end;
sum = sum + n;
avg=sum/3;
goto start;
end:
printf("Sum = %d\n",sum);
printf("avg= %d",avg);
return 0;
}
```
OUTPUT
Enter a number: 10
Enter a number: 20
Enter a number: 30
Enter a number: -90
Sum = 60
avg= 20

Q10). check if a number is even or not. (Using goto)
```c
#include
int main()
{
int n;
printf("enter a number:");
scanf("%d",&n);
if(n%2!=0)
goto end;
if(n%2==0)
printf("no is even");
end:
return 0;
}
```
OUTPUT1:
enter a number:8
no is even
OUTPUT2:
enter a number:7