

Assignment - 6

```
(1) #include <stdio.h>
int main()
{
    int i;
    double number, sum = 0.0;
    for (i = 1; i <= 10; ++i)
    {
        printf("Enter a n %d: ", i);
        scanf("%lf", &number);
        if (number < 0.0)
        {
            break;
        }
        sum += number;
    }
    printf("Sum = %.2lf", sum);
    return 0;
}
```

output: Enter a n1: 2.4
Enter a n2: 4.5
Enter a n3: 3.4
Enter a n4: -3
Sum : 10.30

```
(2) #include <stdio.h>
int main()
{
    int number, i, sum = 0;
    for (i = 0; i <= 10; ++i)
    {
        printf("Enter number: ");
        scanf("%d", &number);
    }
}
```

```

if (number < 0)
    continue;
Sum += number;
}
printf ("Sum = %.d", Sum);
return 0;
}

```

Output :

```

Enter number : 10
Enter number : 15
Enter number : -20
Enter number : 30
Enter number : -50
Enter number : 90
Enter number : -45
Enter number : 0
Enter number : -0
Enter number : 50
Enter number : 80
Sum : 875

```

```

(3) #include <stdio.h>
int main()
{
    int a;
    while (1)
    {
        printf ("Enter the number : ");
        scanf ("%d", &a);
        if (a == 0)
            break;
    }
    return 0;
}

```

```

(4) #include <stdio.h>
int main()
{
    int n, i, flag = 0;
    printf("Enter a positive integer:");
    scanf("%d", &n);
    for (i = 2; i <= n / 2; ++i)
    {
        if (n % i == 0)
        {
            flag = 1;
            break;
        }
    }
    if (flag == 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;
}

```

Output : Enter a positive integer : 29
29 is a prime number.

```
(5) #include <stdio.h>
#include <conio.h>
void main ()
```

```
{
```

```
    int i, n, sum;
```

```
    sum = 0;
```

```
    clrscr ();
```

```
    printf ("Enter the number :");
```

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

```
    for (i = 1; i <= n; i++)
```

```
    {
```

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

```
            sum = sum + i;
```

```
            continue;
```

```
            sum = sum + i;
```

```
    }
```

```
    printf ("Sum of all odd integers is %d", sum);
```

```
    getch ();
```

```
}
```

Output: Enter the number : 10.

Sum of all odd integers : 25.

```
(6) #include <stdio.h>
```

```
int main ()
```

```
{
```

```
    int n, i, flag = 0;
```

```
    printf ("Enter a positive integer:");
```

```
    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.");
        continue;
    }
    return 0;
}

```

output:

Enter a positive integer : 31
31 is a prime number.

```

(7) #include <stdio.h>
int main()
{
    int counter;
    printf ("even numbers between 1 to 100\n");
    for (counter = 1; counter <= 100; counter++)
    {
        if (counter % 2 == 0)
        {
            printf ("%d", counter);
            continue;
        }
    }
}

```

```
return 0;
}
```

output :

2 4 6 8 10 12 14 16 18 20 22 24
26 28 30 32 34 36 38 40 42 44
46 48 50 52 54 56 58 60 62 64 66
68 70 72 74 76 78 80 82 84 86 88
90 92 94 96 98 100.

(Q) #include <stdio.h>

int main()

{

int counter = 1;

int n;

printf ("Enter the value of n:");

scanf ("%d", &n);

START:

printf ("%d", counter);

counter++;

if (counter != n)

goto START;

return 0;

}

output:

1 2 3 4 5 6 7 8 9 10


```

(9) #include <stdio.h>
int main()
{
    const int maxInput = 100;
    int i;
    double number, average, sum = 0.0;
    for (i = 1; i <= maxInput; ++i)
    {
        printf("%d. Enter a number", i);
        scanf("%lf", &number);
        if (number < 0.0)
        {
            goto jump;
        }
        sum += number;
    }
    jump:
    average = sum / (i - 1);
    printf("Sum = %.2f\n", sum);
    printf("Average = %.2f", average);
    return 0;
}

```

Output :

```

Enter a number : 3
Enter a number : 4.3
Enter a number : 9.3
Enter a number : -2.9
Sum = 16.60
Average = 5.53

```

```
(10) #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);
}
```

Output :

Enter a number

74

74 is even.