

Assignment-6

#include <stdio.h> included in all answers.

```
1. int main() {  
    int x, i, sum = 0;  
    printf("%d", x); ("Enter a number");  
    scanf("%d", &x);  
    for (i = 1; i <= x; i++)  
    {  
        sum = sum + i;  
    }  
    printf("%d", sum);  
    return 0;  
}
```

```
2. int main() {  
    int i, x, sum = 0;  
    printf("Enter a number");  
    scanf("%d", &x);  
    for (i = 1; i <= x * 2; i++)  
    {  
        if (i % 2 == 0)  
            sum = sum + i;  
    }  
    printf("%d", sum);  
    return 0;  
}
```


3.

```
int main() {
    int x, sum = 0, i;
    printf("Enter a number");
    scanf("%d", &x);
    for (i = 1; i <= 2 * x; i++)
    {
        if (i % 2)
            sum = sum + i;
    }
    printf("sum = %d", sum);
    return 0;
}
```

4.

```
int main() {
    int x, sum = 0, i;
    printf("Enter a no");
    scanf("%d", &x);
    for (i = 1; i <= x; i++)
        sum = sum + i * i;
    printf("sum = %d", sum);
    return 0;
}
```

5.

```
int main() {
    int x, sum = 0, i;
    printf("Enter a number");
    scanf("%d", &x);
    for (i = 1; i <= x; i++)
        sum = sum + i * i * i;
    printf("sum = %d", sum);
    return 0;
}
```

```

6. int main() {
    int x, i, fact = 1;
    printf("Enter a number");
    scanf("%d", &x);
    while (x > 0)
    {
        fact = fact * x;
        x--;
    }
    printf("factorial = %d", fact);
    return 0;
}

```

```

7. int main() {
    int x, i, count = 0;
    printf("Enter a number");
    scanf("%d", &x);
    while (x)
    {
        count++;
        x = x/10;
    }
    printf("%d", count);
}

```



```

8. int main() {
    int x, i;
    printf("Enter a number");
    scanf("%d", &x);
    if (x == 1)
    {
        printf("not prime");
        exit(0);
    }
    else
        for (i = 2; i <= x; i++)
        {
            if (x % i == 0)
                break;
        }
    if (x == i)
        printf("prime number");
    else
        printf("not prime number");
    return 0;
}

```

```

9. int main() {
    printf("Enter two numbers");
    scanf("%d %d", &x1, &x2);
    for (i1 = 1; i1 <= 100; i1++)
        for (i2 = 1; i2 <= 100; i2++)
        {
            if (i1 * x1 == i2 * x2)
            {
                printf("LCM = %d", x1 * i1);
                exit(0);
            }
        }
    return 0;
}

```

10 int main()

{

~~int x, rev;~~

int x, rev = 0, i;

printf("Enter a number");

scanf("%d", &x);

while(x)

{

i = x % 10;

x = x / 10;

rev = i + rev * 10;

}

printf("%d", rev);

return 0;

}