Here is the complete set of C programs for your assignment, formatted and ready for PDF export. Each program is a direct answer to the respective question.

```c
// 1. Program to calculate sum of first N natural numbers
#include <stdio.h>
int main() {
    int N, sum = 0;
    printf("Enter N: ");
    scanf("%d", &N);
    for(int i = 1; i <= N; i++) {
        sum += i;
    }
    printf("Sum of first %d natural numbers is %d", N, sum);
    return 0;
}

// 2. Program to calculate sum of first N even natural numbers
#include <stdio.h>
int main() {
    int N, sum = 0;
    printf("Enter N: ");
    scanf("%d", &N);
    for(int i = 1; i <= N; i++) {
        sum += 2*i;
    }
    printf("Sum of first %d even natural numbers is %d", N, sum);
    return 0;
}

// 3. Program to calculate sum of first N odd natural numbers
#include <stdio.h>
int main() {
    int N, sum = 0;
    printf("Enter N: ");
    scanf("%d", &N);
    for(int i = 0; i < N; i++) {
        sum += 2*i + 1;
    }
    printf("Sum of first %d odd natural numbers is %d", N, sum);
    return 0;
}

// 4. Program to calculate sum of squares of first N natural numbers
#include <stdio.h>
int main() {
```

```c
    int N, sum = 0;
    printf("Enter N: ");
    scanf("%d", &N);
    for(int i = 1; i <= N; i++) {
        sum += i*i;
    }
    printf("Sum of squares of first %d natural numbers is %d", N, sum);
    return 0;
}

// 5. Program to calculate sum of cubes of first N natural numbers
#include <stdio.h>
int main() {
    int N, sum = 0;
    printf("Enter N: ");
    scanf("%d", &N);
    for(int i = 1; i <= N; i++) {
        sum += i*i*i;
    }
    printf("Sum of cubes of first %d natural numbers is %d", N, sum);
    return 0;
}

// 6. Program to calculate factorial of a number
#include <stdio.h>
int main() {
    int N;
    unsigned long long fact = 1;
    printf("Enter a number: ");
    scanf("%d", &N);
    for(int i = 1; i <= N; i++) {
        fact *= i;
    }
    printf("Factorial of %d is %llu", N, fact);
    return 0;
}

// 7. Program to count digits in a given number
#include <stdio.h>
int main() {
    int N, count = 0;
    printf("Enter a number: ");
    scanf("%d", &N);
    int temp = N;
    while(temp != 0) {
        temp /= 10;
        count++;
    }
```

```c
    printf("Number of digits in %d is %d", N, count);
    return 0;
}

// 8. Program to check whether a number is prime or not
#include <stdio.h>
int main() {
    int N, flag = 0;
    printf("Enter a number: ");
    scanf("%d", &N);
    if(N <= 1) flag = 1;
    for(int i = 2; i*i <= N; i++) {
        if(N % i == 0) {
            flag = 1;
            break;
        }
    }
    if(flag == 0) printf("%d is a Prime number", N);
    else printf("%d is not a Prime number", N);
    return 0;
}

// 9. Program to calculate LCM of two numbers
#include <stdio.h>
int main() {
    int a, b, max;
    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);
    max = (a > b) ? a : b;
    while(1) {
        if(max % a == 0 && max % b == 0) {
            printf("LCM of %d and %d is %d", a, b, max);
            break;
        }
        max++;
    }
    return 0;
}

// 10. Program to reverse a given number
#include <stdio.h>
int main() {
    int N, rev = 0;
    printf("Enter a number: ");
    scanf("%d", &N);
    while(N != 0) {
        rev = rev * 10 + N % 10;
        N /= 10;
```

```
    }
    printf("Reversed number is %d", rev);
    return 0;
}
```

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