

National Institute of Technology, Patna



EE lab CSL (2601) Assignment no - 6

INDEX

Page No.	Contents	Date	Remarks
1	WAP to find the sum of digits of an inputted number.	19.05.2021	
2	WAP to check whether a given number is perfect or not.	19.05.2021	
3	WAP to check whether a given number is armstrong number or not.	19.05.2021	
4	WAP to print fibonacci series till n terms.	19.05.2021	

Name : Sudhanshu Ranjan
Batch : 2020-2024
Roll no : 2002006
Class : BTECH EE
Instructor : Dr. Neha Mam

1. Write a program to find the sum of digits of an inputted number.

```
#include <stdio.h>
```

```
int main() {
```

```
    int n, sum = 0, a;
```

```
    printf("Enter a number to find the sum of the  
           digits : ");
```

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

```
    while (n != 0) {
```

```
        a = n % 10;
```

```
        sum = sum + a;
```

```
        n = n / 10;
```

```
    }
```

```
    printf("%d", sum);
```

```
    return 0;
```

```
}
```


C seriesdisp


```
C sum_of_digits.c >  main()
```

> OUTLINE

> OUTLINE

1. **Introduction**
 2. **Methodology**
 3. **Results**
 4. **Discussion**
 5. **Conclusion**
 6. **References**
 7. **Appendix**
 8. **Index**
 9. **Table of Contents**
 10. **Figure 1**
 11. **Figure 2**
 12. **Figure 3**
 13. **Figure 4**
 14. **Figure 5**
 15. **Figure 6**
 16. **Figure 7**
 17. **Figure 8**
 18. **Figure 9**
 19. **Figure 10**
 20. **Figure 11**
 21. **Figure 12**
 22. **Figure 13**
 23. **Figure 14**
 24. **Figure 15**
 25. **Figure 16**
 26. **Figure 17**
 27. **Figure 18**
 28. **Figure 19**
 29. **Figure 20**
 30. **Figure 21**
 31. **Figure 22**
 32. **Figure 23**
 33. **Figure 24**
 34. **Figure 25**
 35. **Figure 26**
 36. **Figure 27**
 37. **Figure 28**
 38. **Figure 29**
 39. **Figure 30**
 40. **Figure 31**
 41. **Figure 32**
 42. **Figure 33**
 43. **Figure 34**
 44. **Figure 35**
 45. **Figure 36**
 46. **Figure 37**
 47. **Figure 38**
 48. **Figure 39**
 49. **Figure 40**
 50. **Figure 41**
 51. **Figure 42**
 52. **Figure 43**
 53. **Figure 44**
 54. **Figure 45**
 55. **Figure 46**
 56. **Figure 47**
 57. **Figure 48**
 58. **Figure 49**
 59. **Figure 50**
 60. **Figure 51**
 61. **Figure 52**
 62. **Figure 53**
 63. **Figure 54**
 64. **Figure 55**
 65. **Figure 56**
 66. **Figure 57**
 67. **Figure 58**
 68. **Figure 59**
 69. **Figure 60**
 70. **Figure 61**
 71. **Figure 62**
 72. **Figure 63**
 73. **Figure 64**
 74. **Figure 65**
 75. **Figure 66**
 76. **Figure 67**
 77. **Figure 68**
 78. **Figure 69**
 79. **Figure 70**
 80. **Figure 71**
 81. **Figure 72**
 82. **Figure 73**
 83. **Figure 74**
 84. **Figure 75**
 85. **Figure 76**
 86. **Figure 77**
 87. **Figure 78**
 88. **Figure 79**
 89. **Figure 80**
 90. **Figure 81**
 91. **Figure 82**
 92. **Figure 83**
 93. **Figure 84**
 94. **Figure 85**
 95. **Figure 86**
 96. **Figure 87**
 97. **Figure 88**
 98. **Figure 89**
 99. **Figure 90**
 100. **Figure 91**
 101. **Figure 92**
 102. **Figure 93**
 103. **Figure 94**
 104. **Figure 95**
 105. **Figure 96**
 106. **Figure 97**
 107. **Figure 98**
 108. **Figure 99**
 109. **Figure 100**
 110. **Figure 101**
 111. **Figure 102**
 112. **Figure 103**
 113. **Figure 104**
 114. **Figure 105**
 115. **Figure 106**
 116. **Figure 107**
 117. **Figure 108**
 118. **Figure 109**
 119. **Figure 110**
 120. **Figure 111**
 121. **Figure 112**
 122. **Figure 113**
 123. **Figure 114**
 124. **Figure 115**
 125. **Figure 116**
 126. **Figure 117**
 127. **Figure 118**
 128. **Figure 119**
 129. **Figure 120**
 130. **Figure 121**
 131. **Figure 122**
 132. **Figure 123**
 133. **Figure 124**
 134. **Figure 125**
 135. **Figure 126**
 136. **Figure 127**
 137. **Figure 128**
 138. **Figure 129**
 139. **Figure 130**
 140. **Figure 131**
 141. **Figure 132**
 142. **Figure 133**
 143. **Figure 134**
 144. **Figure 135**
 145. **Figure 136**
 146. **Figure 137**
 147. **Figure 138**
 148. **Figure 139**
 149. **Figure 140**
 150. **Figure 141**
 151. **Figure 142**
 152. **Figure 143**
 153. **Figure 144**
 154. **Figure 145**
 155. **Figure 146**
 156. **Figure 147**
 157. **Figure 148**
 158. **Figure 149**
 159. **Figure 150**
 160. **Figure 151**
 161. **Figure 152**
 162. **Figure 153**
 163. **Figure 154**
 164. **Figure 155**
 165. **Figure 156**
 166. **Figure 157**
 167. **Figure 158**
 168. **Figure 159**
 169. **Figure 160**
 170. **Figure 161**
 171. **Figure 162**
 172. **Figure 163**
 173. **Figure 164**
 174. **Figure 165**
 175. **Figure 166**
 176. **Figure 167**
 177. **Figure 168**
 178. **Figure 169**
 179. **Figure 170**
 180. **Figure 171**
 181. **Figure 172**
 182. **Figure 173**
 183. **Figure 174**
 184. **Figure 175**
 185. **Figure 176**
 186. **Figure 177**
 187. **Figure 178**
 188. **Figure 179**
 189. **Figure 180**
 190. **Figure 181**
 191. **Figure 182**
 192. **Figure 183**
 193. **Figure 184**
 194. **Figure 185**
 195. **Figure 186**
 196. **Figure 187**
 197. **Figure 188**
 198. **Figure 189**
 199. **Figure 190**
 200. **Figure 191**
 201. **Figure 192**
 202. **Figure 193**
 203. **Figure 194**
 204. **Figure 195**
 205. **Figure 196**
 206. **Figure 197**
 207. **Figure 198**
 208. **Figure 199**
 209. **Figure 200**
 210. **Figure 201**
 211. **Figure 202**
 212. **Figure 203**
 213. **Figure 204**
 214. **Figure 205**
 215. **Figure 206**
 216. **Figure 207**
 217. **Figure 208**

TERMINAL

1: Code

✓ + ✓ □ 🗑 ^ ✕

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

Enter a number to find the sum of the digits : 123

6

```
PS D:\C++Full course\hitesh>
```

2. Write a program to check whether a given number is perfect number or not.

```
#include <stdio.h>
int main () {
    int n, sum=0, a;
    printf (" Enter a number to find out
            whether the number is perfect or not ");
    scanf ("%d", &n);

    for (int i=1; i<n; i++) {
        a = n%i;
        if (a==0)
        {
            sum = sum + i;
        }
    }

    if (sum == n)
        printf ("Given number is perfect");
    else
        printf ("Given number is not perfect");

    return 0;
}
```



1. **Identify the problem.**
 2. **Identify the cause of the problem.**
 3. **Identify the effect of the problem.**
 4. **Identify the solution.**
 5. **Identify the outcome.**
 6. **Identify the feedback.**
 7. **Identify the evaluation.**
 8. **Identify the conclusion.**
 9. **Identify the recommendation.**
 10. **Identify the action plan.**

1: Code

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\C++Full course\hitesh> cd "d:\C++Full course\hitesh\" ; if ($?) { gcc perfectno.c -o perfectno } ; if ($?) { .\perfectno }
Enter a number to find the sum of the digits : 26
Given number is not perfect
PS D:\C++Full course\hitesh> 
```


3. Write a program to check whether a given number is armstrong or not.

```
#include <stdio.h>
int main () {
    int n, sum = 0, a, m;

    printf("Enter a number to find if it is armstrong or
           not : ");
    scanf ("%d", &n);

    m = n;
    while (n != 0) {
        a = n % 10;
        sum = sum + (a * a * a);
        n = n / 10;
    }

    if (sum == m)
        printf ("Given number is armstrong number");
    else
        printf ("Given number is not armstrong no.");

    return 0;
}
```


4. Write a program to print fibonacci series for n terms.

```
#include <stdio.h>
```

```
int main () {
```

```
    int n, sum = 0, t1 = 0, t2 = 1, m;
```

```
    printf ("Enter the no. of digits upto which you want  
    fibonacci : ");
```

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

```
    m = n - 2;
```

```
    printf ("Fibonacci series \n%d \n%d \n", t1, t2);
```

```
    sum = t1 + t2;
```

```
    for (int i = 1; i <= m; i++) {
```

```
        printf ("%d \n", sum);
```

```
        t1 = t2;
```

```
        t2 = sum;
```

```
        sum = t1 + t2;
```

```
    }
```

```
    return 0;
```

```
}
```


