C / C++ Programming

Lab # 03
loops

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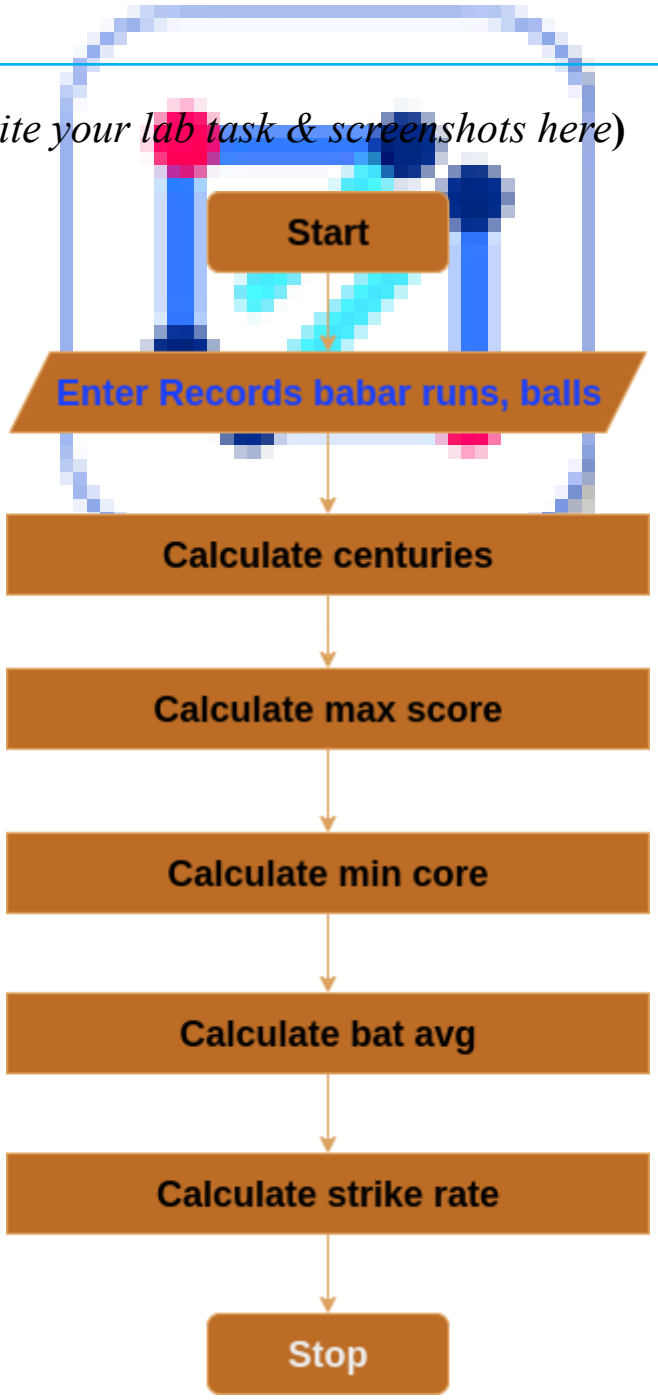
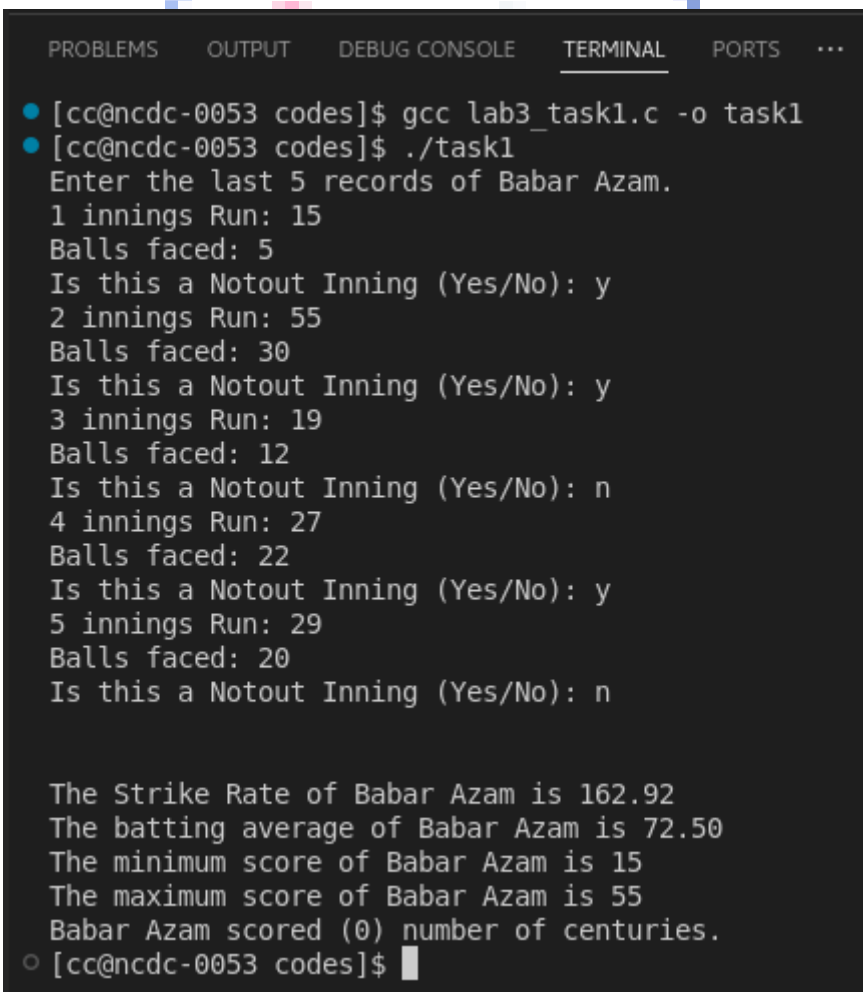
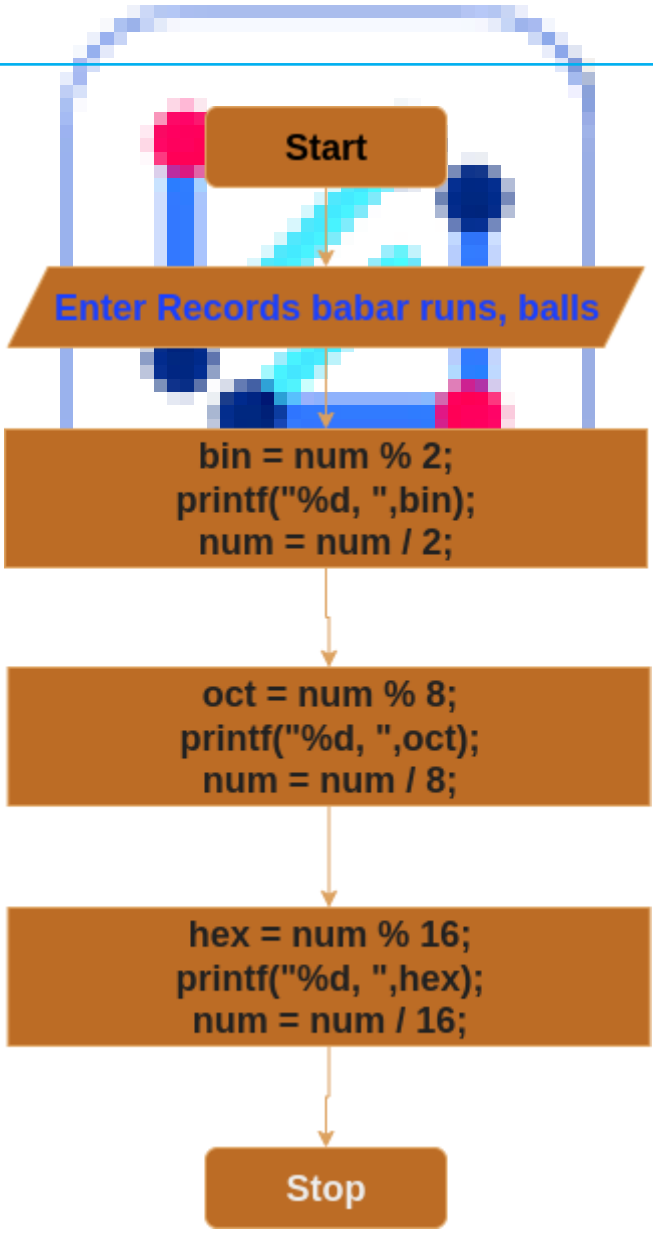
Date	*11th July 2025*

1. **In-Lab Tasks**: (*Write your lab task & screenshots here*)
   i. **Task 1:**




PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
[cc@ncdc-0053 codes]$ gcc lab3_task1.c -o task1
[cc@ncdc-0053 codes]$ ./task1
Enter the last 5 records of Babar Azam.
1 innings Run: 15
Balls faced: 5
Is this a Notout Inning (Yes/No): y
2 innings Run: 55
Balls faced: 30
Is this a Notout Inning (Yes/No): y
3 innings Run: 19
Balls faced: 12
Is this a Notout Inning (Yes/No): n
4 innings Run: 27
Balls faced: 22
Is this a Notout Inning (Yes/No): y
5 innings Run: 29
Balls faced: 20
Is this a Notout Inning (Yes/No): n
The Strike Rate of Babar Azam is 162.92
The batting average of Babar Azam is 72.50
The minimum score of Babar Azam is 15
The maximum score of Babar Azam is 55
Babar Azam scored (0) number of centuries.
[cc@ncdc-0053 codes]$

ii. Task 2:




```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  ...

[cc@ncdc-0053 codes]$ gcc lab3_task2.c -o task2
[cc@ncdc-0053 codes]$ ./task2
Enter the Number.
22
Binary Conversion.
LSB -----> MSB.
0, 1, 1, 0, 1,

Octal Conversion.
LSB -----> MSB.
6, 2,

Hexadecimal Conversion.
LSB -----> MSB.
6, 1,
```

iii. **Task 3:**

```
[cc@ncdc-0053 codes]$ ./task3
Enter the width of the bytes i.e (0-8).
1


To send the packet generate checksum of (1) bytes.
Enter from LSB -----> MSB.
Enter (0) byte: 1


To recieve the packet enter checksum of (1) bytes.
Enter from LSB -----> MSB.
Enter (0) byte: 1


Congratulations! The packet deliver susscessfully.
[cc@ncdc-0053 codes]$
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  ...
[cc@ncdc-0053 codes]$ gcc lab3_task3.c -o task3
[cc@ncdc-0053 codes]$ ./task3
Enter the width of the bytes i.e (0-8).
1


To send the packet generate checksum of (1) bytes.
Enter from LSB -----> MSB.
Enter (0) byte: 0


To recieve the packet enter checksum of (1) bytes.
Enter from LSB -----> MSB.
Enter (0) byte: 1


Warning! the checksum do not match.
```

iv. Task 4:

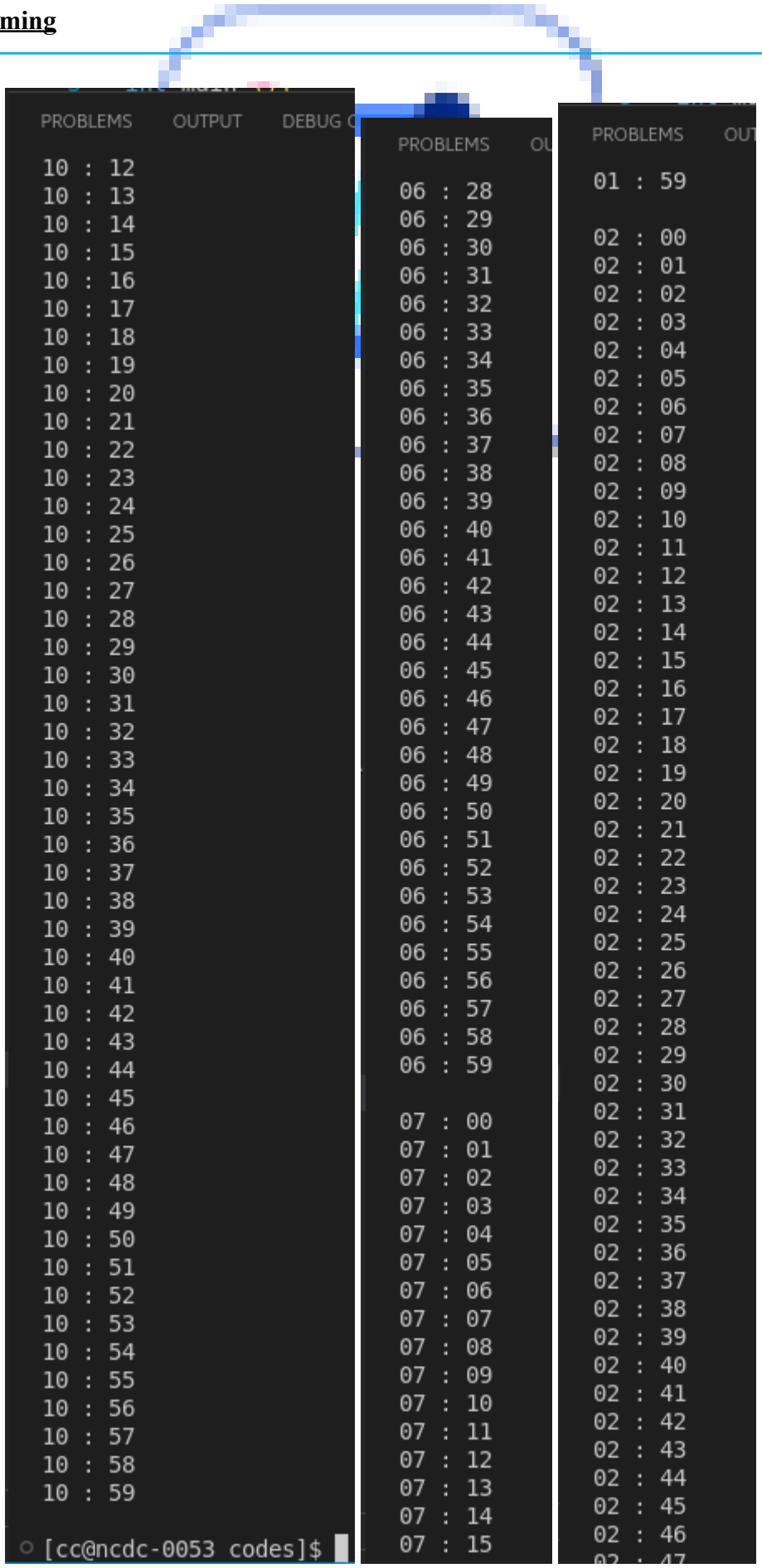
```
Enter attempt # (5) of your guess: 50


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
Enter attempt # (6) of your guess: 56


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
Enter attempt # (7) of your guess: 60


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
Enter attempt # (8) of your guess: 62


Congratulations! You guess it susscessfully.
[cc@ncdc-0053 codes]$
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
[cc@ncdc-0053 codes]$ gcc lab3_task4.c -o task4
[cc@ncdc-0053 codes]$ ./task4
Enter attempt # (1) of your guess: 12


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
Enter attempt # (2) of your guess: 34


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
Enter attempt # (3) of your guess: 45


Your Guess Number is lesser.


Do you want to guess again (yes/No).
y
```

v. **Task 5:**

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

[cc@ncdc-0053 code]$ gcc lab2_task6.c -o task6
[cc@ncdc-0053 code]$ ./task6
Enter the co-ordinates of initial point.
x1 =  1
y1 =  2
Enter the co-ordinates of obstacle.
x2 =  1
y2 =  3
Enter the direction you want to go...
u
Next move
Enter the direction you want to go...
u
Sorry You exceed the boundary.
Game Over
```

vi. **Task 6:**


PROBLEMS OUTPUT DEBUG
10 : 12
10 : 13
10 : 14
10 : 15
10 : 16
10 : 17
10 : 18
10 : 19
10 : 20
10 : 21
10 : 22
10 : 23
10 : 24
10 : 25
10 : 26
10 : 27
10 : 28
10 : 29
10 : 30
10 : 31
10 : 32
10 : 33
10 : 34
10 : 35
10 : 36
10 : 37
10 : 38
10 : 39
10 : 40
10 : 41
10 : 42
10 : 43
10 : 44
10 : 45
10 : 46
10 : 47
10 : 48
10 : 49
10 : 50
10 : 51
10 : 52
10 : 53
10 : 54
10 : 55
10 : 56
10 : 57
10 : 58
10 : 59
[cc@ncdc-0053 codes]$
PROBLEMS
06 : 28
06 : 29
06 : 30
06 : 31
06 : 32
06 : 33
06 : 34
06 : 35
06 : 36
06 : 37
06 : 38
06 : 39
06 : 40
06 : 41
06 : 42
06 : 43
06 : 44
06 : 45
06 : 46
06 : 47
06 : 48
06 : 49
06 : 50
06 : 51
06 : 52
06 : 53
06 : 54
06 : 55
06 : 56
06 : 57
06 : 58
06 : 59
07 : 00
07 : 01
07 : 02
07 : 03
07 : 04
07 : 05
07 : 06
07 : 07
07 : 08
07 : 09
07 : 10
07 : 11
07 : 12
07 : 13
07 : 14
07 : 15
PROBLEMS
01 : 59
02 : 00
02 : 01
02 : 02
02 : 03
02 : 04
02 : 05
02 : 06
02 : 07
02 : 08
02 : 09
02 : 10
02 : 11
02 : 12
02 : 13
02 : 14
02 : 15
02 : 16
02 : 17
02 : 18
02 : 19
02 : 20
02 : 21
02 : 22
02 : 23
02 : 24
02 : 25
02 : 26
02 : 27
02 : 28
02 : 29
02 : 30
02 : 31
02 : 32
02 : 33
02 : 34
02 : 35
02 : 36
02 : 37
02 : 38
02 : 39
02 : 40
02 : 41
02 : 42
02 : 43
02 : 44
02 : 45
02 : 46

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   ...
[cc@ncdc-0053 codes]$ gcc lab3_task5.c -o task5
[cc@ncdc-0053 codes]$ ./task5
Enter the minutes (0-59)
11


00 : 00
00 : 01
00 : 02
00 : 03
00 : 04
00 : 05
00 : 06
00 : 07
00 : 08
00 : 09
00 : 10
00 : 11
00 : 12
00 : 13
00 : 14
00 : 15
00 : 16
00 : 17
00 : 18
00 : 19
00 : 20
00 : 21
00 : 22
00 : 23
00 : 24
```

OBJ

vii. Task 7:

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   ···
[cc@ncdc-0053 codes]$ gcc lab3_task7.c -o task7
[cc@ncdc-0053 codes]$ ./task7
Select the Location from (1-16)


---------------------------------
|       |       |       |       |
|   12  |   13  |   14  |   15  |
|       |       |       |       |
---------------------------------
|       |       |       |       |
|   8   |   9   |   10  |   11  |
|       |       |       |       |
---------------------------------
|       |       |       |       |
|   4   |   5   |   6   |   7   |
|       |       |       |       |
---------------------------------
|       |       |       |       |
|   0   |   1   |   2   |   3   |
|       |       |       |       |
---------------------------------
The guess is: 3
Hurrah!, I have found the hidden treasure at: 3
```