# **QUESTION 1:**

```
1 #include<stdio.h>
  3 □ int main() {
                                                                                                                       C:\Users\Mahad\Desktop\LAB SUB new\1.exe
             int input,mainint;
int sum = 0;
printf("Find the Sum of numbers.");
4
5
6
7
8
9
10
                                                                                                                        Find the Sum of numbers.
Enter number to sum(0 to exit) : 45
sum upto entered numbers is : 45
             mainint = input:
                                                                                                                         nter number to sum(0 to exit) : 45
um upto entered numbers is : 90
            11 Ė
12
13
14
15
16 = 17
18
19
20 - 21
22 - 23
24
                                                                                                                        inter number to sum(0 to exit) : 1234
sum upto entered numbers is : 1339
                                                                                                                        enter number to sum(0 to exit) : 78
                   printf("sum upto entered numbers is : %d\n",sum);
                                                                                                                         nter number to sum(0 to exit) : 0 ou have enter 0, Code is exited
             } while(input != 0);
                                                                                                                          ocess exited after 5.954 seconds with return value 0 ess any key to continue . . .
             return 0;
25
26
27
28
```

# **QUESTION 2:**

```
1 #include<stdio.h>
                                                                                                                                       C:\Users\Mahad\Desktop\LAB SUB new\2.exe
  3 □ int main() {
             int input:
            int factorial = 1;
printf("Find the factorial of entered number.\nEnter your number : ");
scanf("%d",&input);
                                                                                                                                         nter your number : 5
! is equal to : 120
                                                                                                                                         rocess exited after 4.053 seconds with return value 0 ress any key to continue . . . _
            if (input == 0) {
    printf("%d! is equal to : 1", input);
} else 
 9 🗀
11
12 E
                  for(int i = input; i >= 1; i--) {
  factorial = i * factorial;
14
15
                  printf("%d! is equal to : %d", input,factorial);
16
17
18
19
20
             return 0 :
21
```

#### **QUESTION 3:**

#### **QUESTION 4:**

# **QUESTION 5:**

```
#include <stdio.h>
The printf ("Enter a number to reverse: ");

while (input! = 0) {

int digit = input % 10;

revnum = 10;

input /= 10;

printf("The reversed number is: %d\n", revnum);

return 0;

#include <stdio.h>

Include <stdio.h

Include <std>Include <st
```

#### **QUESTION 6:**

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

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

#include <std>#include <stdio.h

#include <std
```

# **QUESTION 7:**

```
1 #include <stdio.h>
 3 □ int main() {
4 int n;
                                                                                                               C:\Users\Mahad\Desktop\LAB SUB new\7.exe
                                                                                                                inter a positive integer: 8 collatz sequence: 8 -> 4 -> 2 -> 1
 5
 6
7
8
            printf("Enter a positive integer: ");
                                                                                                                rocess exited after 2.037 seconds with return value 0 ress any key to continue . . . _
  9 🛱
            printf("Please enter a positive integer greater than 0.\n");
}else{
printf("Collatz sequence: ");
10
11
 12
            while (n != 1) {
    printf("%d -> ", n);
13 □
                  if (n % 2 == 0) {
 n = n / 2;
15 🖹
16
                  } else {
    n = 3 * n + 1;
17
18
20
21
            printf("1\n");
22
23
            return 0:
25
```

#### **QUESTION 8:**

Long code(check in github 8.c file)

# **QUESTION 9:**

```
#include <stdio.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C:\Users\Mahad\Desktop\| AB SUB new\9 exe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2. Option B
3. Option C
4. Option D
Enter your answer (1-4): 4
Wrong answer! You now have 5 marks.
                         printf("Welcome to the University Entry Test!\n");
                       for (int i = 1; i <= 10; i++) {
    printf("\n\u00fcustion &\u00e4\u00dcust\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00
                                              if (answer < 1 || answer > 4) {
   printf("Invalid option, please enter a number between 1 and 4.\n");
                                                                   i--;
continue;
                                         CONLINE,

If (answer == 1) {
    score == 1;
    score == 1;

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rter your answer (1-4): 1
prrect answer! You now have 9 marks.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               estion 7:
Option A
. Option B
. Option C
. Option D
                                                                   if (wrongAnswers >= 4) {
    printf("Sorry, you did not qualify for the admission.\n");
    return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             i. Option b
hter your answer (1-4): 4
rong answer! You now have 8 marks.
orry, you did not qualify for the admission.
                                         if (score >= 20) {
    printf("Congratulations, you have qualified for the admission!\n");
    return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rocess exited after 12.64 seconds with return value 0 ress any key to continue . . . _
                       printf("\nThe test has concluded. Your final score is %d.\n", score); return 0;
sources 🖣 Compile Log 📵 Debug 🚳 Find Results 🇁 Console 🔛 Close
```