Pirates of 'c'

Round 1 – 'C' Dock

Duration : 90 minutes   Total Marks : 80

RULES

1. All Questions are **compulsory.**
2. **Save** the source of the program with the same name as the **name of the program**.
3. Cut-off for this round is **45 marks**
4. Any participant found making use of external resources such as **mobile phone**, **pen drive** for searching the source code of the program will be **banished** from the competition immediately.

NOTES

1. Read all questions **carefully.**
2. Create a folder on the desktop with the name same as roll number allotted to you and save all source files in it.

Q1)   **Program Name** : star.c   11 marks

   Objective : Write a c program to print the following output

```
*                       *
*  *  *               *  *  *
*  *  *  *  *      *  *  *  *  *
*  *  *  *  *  *  *  *  *  *  *
```


Q2)   **Program Name** : area.c   8 marks

   Objective : Write a 'c' program to print the area of the triangle.

Q3)   **Program Name** : readtext.c   8 marks

   Objective : write a c program to read a text file and transfer half of its content to another file .
                 Use 'story.txt' as input file and 'mirror.txt' as output file.

Q4)   **Program Name** : dateofbirth.c   15 Marks

   Objective : write a program to find your Day of Birth , given Date of Birth
   Test condition : suppose your date of birth is ' 17 march 1991'
                 Input to the program : 17 03 1991
                 Expected output   : Sunday.

Q5)   **Program Name** : password.c   8 marks

   Objective :   Write a c program to create password authentication screen.
    Condition :   The program must ask for username and password .
                 The password is in the form of *******

Q6) **Program Name** : email.c   15 marks

Objective :   Print e-mail addresses found in text.

Test Condition : suppose following texts are input in the command line "my email id is xyz@gmail.com , qre@gmail.com"

Expected output : xyz@gmail.com

qre@gmail.com

Q7) **Program Name** : piano.c   15 marks

Objective :   Write a c program to build a piano .On pressing different keys different sound will be produced .

"**A language that doesn't have everything is actually easier to program in than some that do." -- Dennis . M. Ritchie**

"**You can't trust code that you did not totally create yourself."**

--- Ken Thompson.