



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc DEGREE PROGRAMME: LEVEL 03
CLOSED BOOK TEST - 1: 2013/2014
CPU1141: INTRODUCTION TO COMPUTER PROGRAMMING

DURATION: ONE HOUR (1 HOUR)

Date: 1st March 2014

Time: 12.45pm – 01.45pm

Answer ALL questions.

Q1.

1. Declare the arrays given below by using the C programming language. (No need to write a complete program)
 - i. An array to store marks (with two decimal points) of 15 students.
 - ii. An array to store the string "My Country".
2. Write the output of the program given below.

```
#include<stdio.h>
int main()
{
    int a,b;
    for(a=4 ; a>=0 ; a--)
    {
        for(b=0 ; b<=a ; b++)
        {
            printf("%d", a );
        }
        printf("\n");
    }
    getch();
}
```

3. Write the above program using the *while loop*.
(Must give the same output as the above program)

Q2.

1. Given below is a C program to simulate a pocket calculator which is able to perform normal calculations such as Addition, Subtraction, Multiplication, and Division using switch statement.

Write this program again by using if - else if statement.

```
#include<stdio.h>
void main( )
{
    float Value1, Value2; char Operator;

    printf("Enter Your First value :");
    scanf("%f\n", & Value1);
    printf("Enter You want Operator :", );
    scanf("%c\n", &Operator);
    printf("Enter Your Second value :", );
    scanf("%f\n", & Value2);

    switch(Operator)
    {
        case ' + ' : printf("%f\n :", value1 + value2); break;

        case ' - ' : printf("%f\n :", value1 - value2); break;

        case ' * ' : printf("%f\n :", value1* value2); break;

        case ' / ' : if(Value2 !=0)
            {
                printf ("%f\n ",Value1/Value2);
            }
            else
            {
                printf("warning : Division by ZERO \n");
            }
            break;

        default : : printf("Unknown Operator \n"); break;
    }
    getch();
}
```

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