

Practical Assignment Answer Sheet

04.11.2022

Name - Aman Kumar Shaw

Course Name - BCA

Date of Assignment Given - 03.11.2022

Date Code Executed - 03.11.2022

Date of Assignment Submitted - 04.11.2022

Program Name - Q1. Write a program in C to check whether a number is a 2 digit number or not.

Code:-

```
#include <stdio.h>

int main()
{
    int num;

    printf("Enter a number: ");
    scanf("%d", &num);

    if (num >= 10 && num <= 99)
        printf("%d is a 2 digit number", num);
    else
        printf("%d is a not 2 digit number", num);

    return 0;
}
```

output:-

```
Enter a number: 49
49 is a 2 digit number
```

```
Enter a number: 101
101 is a not 2 digit number
```

Program Name - Q2. Write a program in C to find the greater number between two numbers.

Code:-

```
#include <stdio.h>

int main()
{
    int n1, n2;

    printf("Enter two numbers: ");
    scanf("%d%d", &n1, &n2);

    if (n1 > n2)
        printf("%d is the greatest number", n1);
    else
        printf("%d is the greatest number", n2);

    return 0;
}
```

output:-

```
Enter two numbers: 71 49
71 is the greatest number
```

```
Enter two numbers: 56 98
98 is the greatest number
```

Program Name - Q3. Write a program in C to check whether a triangle is equilateral, isosceles or scalene.

Code:-

```
#include <stdio.h>

int main()
{
    int a, b, c;

    printf("Enter three sides of triangle: ");
    scanf("%d%d%d", &a, &b, &c);

    if ((a == b) && (b == c))
        printf("Equilateral Triangle");
    else if (a == b || b == c || c == a)
        printf("Isosceles Triangle");
    else
        printf("Scalene Triangle");

    return 0;
}
```

output:-

```
Enter three sides of triangle: 6 6 6
Equilateral Triangle
```

```
Enter three sides of triangle: 4 4 7
Isosceles Triangle
```


```
Enter three sides of triangle: 4 5 2
Scalene Triangle
```

Program Name - Q4. Write a program in C to print the names of the day of a week using a switch case.

Code:-

```
#include <stdio.h>

int main()
{
    int week;
    printf("Enter Week Number: ");
    scanf("%d", &week);
    switch (week)
    {
        case 1:
            printf("Monday");
            break;
        case 2:
            printf("Tuesday");
            break;
        case 3:
            printf("Wednesday");
            break;
        case 4:
            printf("Thursday");
            break;
        case 5:
            printf("Friday");
            break;
        case 6:
            printf("Saturday");
            break;
        case 7:
            printf("Sunday");
            break;
        default:
            printf("Invalid input! Please enter week number between 1-7.");
    }
    return 0;
}
```

output:- 

Program Name - Q5. Write a program in C to find the greatest number among three numbers using nested if else.

Code:-

```
#include <stdio.h>

int main()
{
    int a, b, c;

    printf("Enter three numbers: ");
    scanf("%d%d%d", &a, &b, &c);

    if (a > b)
    {
        if (a > c)
            printf("%d is the greatest number", a);
        else
            printf("%d is the greatest number", c);
    }
    else
    {
        if (b > c)
            printf("%d is the greatest number", b);
        else
            printf("%d is the greatest number", c);
    }

    return 0;
}
```

output:-

```
Enter three numbers: 45 56 33
56 is the greatest number
```

Program Name - Q6. Write a program in C to check whether an input is vowel or consonant.

Code:-

```
#include <stdio.h>

int main()
{
    char ch;

    printf("Enter An Alphabet: ");
    scanf("%c", &ch);

    if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
        ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U')

        printf("%c is a vowel.", ch);
    else
        printf("%c is a consonant.", ch);

    return 0;
}
```

output:-

```
Enter An Alphabet: i
i is a vowel.
```

```
Enter An Alphabet: K
K is a consonant.
```

Program Name - Q7. Write a program in C to perform the addition of time.

Code:-

```
#include <stdio.h>

int main()
{
    int hr1, min1, sec1;
    int hr2, min2, sec2;
    int hr, min, sec;

    printf("Enter First Time: ");
    scanf("%d:%d:%d", &hr1, &min1, &sec1);
    printf("Enter Second Time: ");
    scanf("%d:%d:%d", &hr2, &min2, &sec2);

    sec = sec1 + sec2;
    min = min1 + min2 + (sec / 60);
    hr = hr1 + hr2 + (min / 60);
    min = min % 60;
    sec = sec % 60;

    printf("Total time is: %d Hours %d Minutes %d Seconds", hr, min, sec);

    return 0;
}
```

output:-

```
Enter First Time: 8:45:36
Enter Second Time: 4:18:53
Total time is: 13 Hours 4 Minutes 29 Seconds
```

Program Name - Q8. Write a program in C to print the range of an input.

Code:-

```
#include <stdio.h>

int main()
{
    int n, lower, upper;

    printf("Enter a number: ");
    scanf("%d", &n);

    lower = (n / 10) * 10;
    upper = lower + 10;

    printf("Range is %d - %d", lower, upper);

    return 0;
}
```

output:-

```
Enter a number: 56
Range is 50 - 60
```