# Practical 03

(01)         

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

int main()
{
int n1,n2,high; printf("Please
enter two different numbers: ");
scanf("%d %d",&n1,&n2);

if(n1>n2)
high=n1; else
high=n2;

printf("\nThe highest number of the two is %d\n",high);

return 0;
}
```

(02)

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

int main() {
int n1, n2, n3,high,low;

printf("Please enter three integers: ");
scanf("%d %d %d", &n1, &n2, &n3);

 high = n1;
if (n2 > high)
        high= n2;
else
if (n3 > high)
        high = n3;
        low = n1;
if (n2 < low)
        low = n2;
else
 if (n3 < low)
        low = n3;
printf("The highest number is %d\n",
max); printf("The lowest number is
%d\n", min);

return 0;
}
```

(03)

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

int main() {
char empName[50];
float basic, new, increment;

printf("Please enter the name of the employee name: ");scanf("%s", empName);

printf("Please enter the basic salary of the employee: ");
scanf("%f", &basic);

if (basic < 5000) increment = basic * 0.05;

else if (basic >= 5000 && basic < 10000)increment = basic * 0.1;
else
increment = basic * 0.15;

new = basic + increment; printf("\nEmployee Name: %s\n", empName);printf("Basic Salary: %.2f\n", basic); printf("New Salary: %.2f\n", new);
return 0;
}
```

(04)

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

int main() {
float
radius;

printf("Please enter the circle radius:
");scanf("%lf", &radius);
printf("Diameter of the circle: %.2f\n",radius*2.0);
printf("Circumference of the circle:
%.2f\n",radius*2.0*3.14159);printf("Area of
thecircle: %.2f\n", radius*radius*3.14159);

return 0;
}
```

(05)

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

int main() {
```

```c
    int n1, n2;

    printf("Enter the first number: ");
    scanf("%d", &n1);
    printf("Enter the second number: ");
    scanf("%d", &n2);


    if (n2 != 0 && n1 % n2 == 0) printf("%d is a
    multiplication of %d\n", n1, n2);else
    printf("%d is not a multiplication of %d\n", n1, n2);

    return 0;
    }
```

```c
(06)  #include <stdio.h>
      #include <stdlib.h>

   int main() {
```

```c
    char characters[] = {'A', 'B', 'C', 'a', 'b', 'c', '0', '1', '2', '$', '*', '+', '/', ' '};
    int num_chars = sizeof(characters) / sizeof(char);

    printf("Character\tInteger Equivalent is\n");printf("_-_____\t___\n");

    for (int i = 0; i < num_chars; i++) {
        printf("%c\t\t%d\n", characters[i], characters[i]);
    }

    return 0;
}
```

(07)
```c
#include <stdlib.h>
#include <stdio.h>

int main() {
    int service, sales;
```

```c
    char city;
    float basic, allowance, bonus, remuneration;

    printf("Please enter the basic
salary: ");scanf("%f", &basic);

    printf("Please  enter the number of
years of service: ");scanf("%d",
&service);

    printf("Please enter the monthly
sales: ");scanf("%d", &sales);

    printf("Enter the city (C for Colombo): ");
    scanf(" %c", &city);

    // Calculating the additional allowance for years of
service if (service > 5)
        allowance = 0.1 * basic;else
        allowance = 0;


    // Calculating additional allowance for working in
Colombo if (city == 'C') {
        allowance += 2500;
```

```c
    }

    // Calculating bonus based on monthly
    sales if (sales <= 25000)
        bonus = 0.1 * sales; else if
     (sales <= 50000) bonus = 0.12 *
     sales; else
        bonus = 0.15 * sales;



    // Calculating gross remuneration
    remuneration = basic + allowance + bonus;


    printf("Gross monthly remuneration: %.2f\n", remuneration);


    return 0;
}
```