

## **PRACTICLE 03**

### **Question No:01**

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

int main()
{
    int no1,no2;
    printf("Enter two numbers ");
    scanf("%d %d",&no1,&no2);
    if (no1>no2)
        printf("%d is the highest number",no1);
    else printf("%d is the highest number",no2);
    return 0;
}
```

### **Question No:02**

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

int main()
{
    //three numbers and display highest and lowest
    int no1,no2,no3,max,min;
    printf("Enter three numbers ");
    scanf("%d %d %d",&no1,&no2,&no3);
```

```

max=no1;
min=no2;
if (no2>max)
{
    max=no2;
    min=no1;
}
if (no3>max)
{
    max=no3;
}
if (min>no3)
    min=no3;
printf("%d is the highest number\n",max);
printf("%d is the lowest number\n",min);
return 0;
}

```

### **Question No:03**

```

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

int main()
{
    char name[25];
    float basic,incre,newsal;

```

```
printf("Enter the Employee Name ");
scanf("%s",&name);
printf("Enter the Basic Salary ");
scanf("%f",&basic);
if (basic<5000)
    incre=(basic*0.05);
else if(basic>=5000&&basic<10000)
    incre=(basic*0.1);
else incre=(basic*0.15);
newsal=basic+incre;
printf("Employee Name : %s\n",name);
printf("New Salary : %.2f",newsal);
return 0;
}
```

### **Question No:04**

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

int main()
{
    float dia,cir,radi,area,pi;
    pi=3.14159;
    printf("Enter the radius value ");
    scanf("%f",&radi);
    dia=2*radi;
```

```
    cir=2*pi*radi;  
    area=pi*radi*radi;  
    printf("The circle's diameter is %.4f\n",dia);  
    printf("The circle's circumference is %.4f\n",cir);  
    printf("The circle's area is %.4f\n",area);  
    return 0;  
}
```

### **Question No:05**

```
#include <stdio.h>  
  
#include <stdlib.h>  
  
int main()  
{  
    int x,y,rem;  
    printf("Enter two numbers ");  
    scanf("%d %d",&x,&y);  
    rem=x%y;  
    if (rem==0)  
        printf("%d is a multiple of %d",x,y);  
    else  
        printf("%d is not a multiple of %d",x,y);  
    return 0;  
}
```

### **Question No:06**

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

```
int main() {
    char uppercase[] = {'A', 'B', 'C'};
    char lowercase[] = {'a', 'b', 'c'};
    char digits[] = {'0', '1', '2'};
    char symbols[] = {'$', '*', '+', '/'};
    char blank = ' ';

    printf("Integer equivalents of uppercase
letters:\n");

    for (int i = 0; i < sizeof(uppercase) /
sizeof(uppercase[0]); i++) {
        printf("%c: %d\n", uppercase[i], uppercase[i]);
    }

    printf("\nInteger equivalents of lowercase
letters:\n");

    for (int i = 0; i < sizeof(lowercase) /
sizeof(lowercase[0]); i++) {
        printf("%c: %d\n", lowercase[i], lowercase[i]);
    }

    printf("\nInteger equivalents of digits:\n");

    for (int i = 0; i < sizeof(digits) /
sizeof(digits[0]); i++) {
        printf("%c: %d\n", digits[i], digits[i]);
    }
}
```

```

    printf("\nInteger equivalents of symbols:\n");
    for (int i = 0; i < sizeof(symbols) /
sizeof(symbols[0]); i++) {
        printf("%c: %d\n", symbols[i], symbols[i]);
    }

    printf("\nInteger equivalent of the blank
character:\n");
    printf("%c: %d\n", blank, blank);

    return 0;
}

```

## **Question No:07**

```

#include <stdio.h>

int main()
{
    float basicSalary, monthlySales;
    char city;
    float additionalAllowance = 0;
    float bonusPercentage = 0;
    float bonusAmount = 0;
    float grossRemuneration = 0;
}

```

```
printf("Enter the Basic Salary: ");
scanf("%f", &basicSalary);

printf("Enter the Monthly Sales (in Rs): ");
scanf("%f", &monthlySales);

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

// Calculate additional allowance based on service
years
if (monthlySales > 50000) {
    bonusPercentage = 15;
} else if (monthlySales >= 25000) {
    bonusPercentage = 12;
} else {
    bonusPercentage = 10;
}

// Calculate additional allowance for salesmen with
over 5 years' service
if (basicSalary >= 5) {
    additionalAllowance = basicSalary * 0.1;
}
```

```
        // Calculate additional allowance for salesmen
        working in Colombo
        if (city == 'C') {
            additionalAllowance += 2500;
        }

        // Calculate bonus amount
        bonusAmount = monthlySales * (bonusPercentage /
100);

        // Calculate gross remuneration
        grossRemuneration = basicSalary +
additionalAllowance + bonusAmount;

        printf("Gross Monthly Remuneration: Rs. %.2f\n",
grossRemuneration);

        return 0;
    }
```