Practical number 03

Student id :- 30583

Q1.
```c
#include<stdio.h>
int main(){
float num1,num2,highest_number;

printf("Enter the first number: ");
scanf("%f",&num1);

printf("Enter the second numberb");
scanf("%f",&num2);

if (num1 > num2)
highest_number = num1;

else
highest_number = num2;

printf("The Highsest is: %.1f\n",highest_number);

return 0;


}
```

Q2.
```c
#include<stdio.h>

int main()
{
    int num1,num2,num3;
    int max, min;

    printf("Enter the first number: ");
    scanf("%d",&num1);

    printf("Enter the second number: ");
    scanf("%d",&num2);

    printf("Enter thre third number: ");
    scanf("%d",&num3);

    printf ("\n");

    max = num1;

    if (num2 > max)

        max = num2;

    if (num3 > max)
        max = num3;

    min = num1;
```

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```
    if (num2 < min)
         min = num2;



    if (num3 < min)
        min = num3;


    printf("The largest number is %d\n", max);
    printf("The smallest number is %d\n", min);

    return 0;




}
```

Q3.

```
#include <stdlib.h>

int main()
{
    char name[15];
    float basic_salary, new_salary;

    printf("Enter employee name: ");
    scanf("%s", &name);

    printf("Enter employee basic salary: ");
    scanf("%f", &basic_salary);

    printf("\n");

    if (basic_salary >= 10000) {

        new_salary = basic_salary + (basic_salary * 15 / 100);
    }
    else if (basic_salary < 10000 && basic_salary >= 5000) {

        new_salary = basic_salary + (basic_salary * 10 / 100);
    }
    else if (basic_salary < 5000) {

        new_salary = basic_salary + (basic_salary * 5 / 100);
    }

    printf("%s new salary is %.2f\n", name, new_salary);
```

```
    return 0;
}
```

Q4.
```
#include <stdio.h>

int main()
{
    float radius, pie = 3.14159; // Declare the variables

    printf("Enter circle radius: "); // User output and get user input
    scanf("%f", &radius);

    printf("\n"); // Skip a line for cleanliness

    printf("Circle diameter: %.2f units\n", radius * 2); // Process in printf
statement

    printf("Circumference of circle: %.4f units\n", 2 * pie * radius);  // Process
in printf statement

    printf("Area of circle: %.4f square units\n", pie * radius, radius);  //
Process in printf statement

    return 0;
}
```

Q5.
```
#include <stdio.h>

int main()
{
    int num1, num2;

    printf("Enter first number: ");
    scanf("%d", &num1);

    printf("Enter second number: ");
    scanf("%d", &num2);

    printf("\n");

    if (num1 % num2 == 0) {
        printf("%d is a multiple of %d\n.", num1, num2);
    }
    else {
        printf("%d is not a multiple of %d\n.", num1, num2);
    }
```

```
    return 0;
```

Q6.

```c
#include <stdio.h>

int main() {
    char upperCaseLetter;
    char lowerCaseLetter;
    char digit;
    char specialCharacter;
    char newline; // To consume the newline character

    // Find Uppercase ASCII value
    printf("Enter an uppercase letter: ");
    scanf(" %c", &upperCaseLetter);

    int asciiValue1 = (int) upperCaseLetter;

    printf("The ASCII value of %c is %d\n", upperCaseLetter, asciiValue1);

    // Find Lowercase ASCII value
    printf("Enter a lowercase letter: ");
    scanf(" %c", &lowerCaseLetter);

    int asciiValue2 = (int) lowerCaseLetter;

    printf("The ASCII value of %c is %d\n", lowerCaseLetter, asciiValue2);

    // Find Digits ASCII value
    printf("Enter a digit: ");
    scanf(" %c", &digit);

    int asciiValue3 = (int) digit;

    printf("The ASCII value of %c is %d\n", digit, asciiValue3);

    // Find Special character ASCII value
    printf("Enter a special character: ");
    scanf(" %c", &specialCharacter);

    int asciiValue4 = (int) specialCharacter;

    printf("The ASCII value of %c is %d\n", specialCharacter, asciiValue4);

    return 0;
}
```

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Q7.
```c
float basic_salary, allowance, bonus;
float monthly_sales, gross_salary;
int years_of_service;
char city;

// Get input values from the user
printf("Enter the basic salary: ");
scanf("%f", &basic_salary);

printf("Enter the monthly sales: ");
scanf("%f", &monthly_sales);

printf("Enter the years of service: ");
scanf("%d", &years_of_service);

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

// Calculate additional allowance based on years of service
if (years_of_service >= 5) {
    allowance = 0.1 * basic_salary;
}
else {
    allowance = 0;
}

// Calculate additional allowance based on city
if (city == 'C') {
    allowance += 2500;
}

// Get monthly sales and calculate bonus
printf("Enter rhe monthly sales: ");
scanf("%f", &monthly_sales);

if (monthly_sales < 25000) {
    bonus = 0.1 * monthly_sales;
}
else if (monthly_sales >= 25000 && monthly_sales < 50000) {
    bonus = 0.12 * monthly_sales;
}
else if (monthly_sales >= 50000) {
    bonus = 0.15 * monthly_sales;
}

// Calculate gross salary
gross_salary = basic_salary + allowance + bonus;
```

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```
    // Output the gross salary
    printf("Gross monthly remuneration: Rs. %.2f\n", gross_salary);

    return 0;
}
```