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29878

Practical 03

1)

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

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

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

    if (num1 > num2)
    {
        printf("The highest number is: %d\n", num1);
    }
    else if (num2 > num1)
    {
        printf("The highest number is: %d\n", num2);
    }
    else
    {
        printf("Both numbers are equal.\n");
    }

    return 0;
```

2)

```
#include <stdio.h>

int main() {
    int num1, num2, num3;
    int largest, smallest;

    printf("Enter the first number: ");
```

```

scanf("%d", &num1);

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

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

largest = smallest = num1;

if (num2 > largest)
    largest = num2;
else if (num2 < smallest)
    smallest = num2;

if (num3 > largest)
    largest = num3;
else if (num3 < smallest)
    smallest = num3;

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

return 0;
}

```

3)

```

#include <stdio.h>

int main() {
    char employeeName[50];
    float basicSalary, newSalary, increment;

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

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

```

```

if (basicSalary < 5000)
    increment = basicSalary * 0.05;
else if (basicSalary >= 5000)
    increment = basicSalary * 0.1;
else if (basicSalary < 10000)
    increment = basicSalary * 0.1;
else
    increment = basicSalary * 0.15;

newSalary = basicSalary + increment;

printf("Employee Name: %s\n", employeeName);
printf("New Salary: %.2f\n", newSalary);

return 0;

```

4)

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

```

int main() {
    float radius;
    const float PI = 3.14159;

    printf("Enter the radius of the circle: ");
    scanf("%f", &radius);

    printf("Diameter: %f\n", 2 * radius);
    printf("Circumference: %f\n", 2 * PI * radius);
    printf("Area: %f\n", PI * radius * radius);

    return 0;
}

```

5)

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

```

int main() {
    int num1, num2;

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

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

    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;
}

```

6)

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

```

int main() {
    char ch;

    printf("ASCII values of uppercase letters:\n");
    for (ch = 'A'; ch <= 'Z'; ch++) {
        printf("%c: %d\n", ch, ch);
    }

    printf("\nASCII values of lowercase letters:\n");
    for (ch = 'a'; ch <= 'z'; ch++) {
        printf("%c: %d\n", ch, ch);
    }

    printf("\nASCII values of digits:\n");
    for (ch = '0'; ch <= '9'; ch++) {
        printf("%c: %d\n", ch, ch);
    }
}

```

```

printf("\nASCII values of special symbols:\n");
printf("$: %d\n", '$');
printf("*: %d\n", '*');
printf("+: %d\n", '+');
printf("/: %d\n", '/');
printf("Blank Character: %d\n", ' ');
}

```

```

#include <stdio.h>

```

```

int main() {
    char ch;

    printf("Enter a character: ");
    scanf("%c", &ch);

    printf("ASCII value of '%c': %d\n", ch, ch);
}

```

7)

```

#include <stdio.h>

```

```

int main() {

    float basicSalary;

    int yearsOfService;

    char city;

    float additionalAllowance = 0,bonus = 0,grossRemuneration;

```

```
printf("Enter the basic salary: ");
```

```
scanf("%f", &basicSalary);
```

```
printf("Enter the number of years of service: ");
```

```
scanf("%d", &yearsOfService);
```

```
printf("Enter the city: ");
```

```
scanf(" %c", &city);
```

```
if (yearsOfService > 5)
```

```
    additionalAllowance += 0.10 * basicSalary;
```

```
if (city == 'C')
```

```
    additionalAllowance += 2500;
```

```
if (basicSalary >= 50000)
```

```
    bonus += 0.15 * basicSalary;
```

```
else if (basicSalary >= 25000)
```

```
    bonus += 0.12 * basicSalary;
```

```
else
```

```
    bonus += 0.10 * basicSalary;
```

```
grossRemuneration = basicSalary + additionalAllowance + bonus;
```

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