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ROLL NO:23K-5535

SECTION:BCS2D

PRACTICE TASK=01

Q1:

4.c

```c
#include <stdio.h>
int main(){
    int my_password=555;
    int users_password;
    printf("enter the password:");
    scanf("%d",&users_password);

    while(users_password!=my_password){
        printf("enter the password:");
    scanf("%d",&users_password);
    }
    return 0;
}
```

OUTPUT:

```
enter the password:456
enter the password:234
enter the password:89907
enter the password:55
enter the password:555

------------------------
```

TASK=PROGRAMING FUNDAMENTAL

```
#include <stdio.h>
//function declaration and definition
void print_table(int num) {
    int i = 1;
    do {
        printf("%d*%d = %d\n", num, i, num*i);
        i++;
    } while (i <= 10);
}

int main() {
    int num;

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

    if (num <= 0) {
        printf("Please enter a positive number.\n");
    }

    else {
```

```
        do {
            printf("\nMultiplication table of %d:\n", num);
            print_table(num);//function calling
            num--;
        }
        while (num >= 1);
    }

    return 0;
}
```

OUTPUT:

```
ctions...  lication table of 4:
4*1 = 4
4*2 = 8
4*3 = 12
4*4 = 16
4*5 = 20
4*6 = 24
4*7 = 28
4*8 = 32
4*9 = 36
4*10 = 40

Multiplication table of 3:
3*1 = 3
3*2 = 6
3*3 = 9
3*4 = 12
3*5 = 15
3*6 = 18
3*7 = 21
3*8 = 24
3*9 = 27
3*10 = 30

Multiplication table of 2:
2*1 = 2
2*2 = 4
2*3 = 6
2*4 = 8
2*5 = 10
2*6 = 12
2*7 = 14
2*8 = 16
2*9 = 18
2*10 = 20

Multiplication table of 1:
```

```
Multiplication table of 1:
1*1 = 1
1*2 = 2
1*3 = 3
1*4 = 4
1*5 = 5
1*6 = 6
1*7 = 7
1*8 = 8
1*9 = 9
1*10 = 10
PS C:\Users\TLS\Desktop\sameer\output>
```

Q2:

```
#include <stdio.h>

float calculateOvertimePay(char type, int hours) {
    float rate;
    float overtimePay = 0;
    if (type == 'p') {
        rate = 150.00;
    }
    else if (type == 'c') {
        rate = 100.00;
    }
    else {
        printf("please enter  the  valid type of employee\n");

    }

    int overtimeHours = 0;
    if (hours > 40) {
        overtimeHours = hours - 40;
    }
```

```
    overtimePay = overtimeHours * rate;
    return overtimePay;
}

int main() {
    int permanent = 0;
    int contract = 0;
    float total_over_time_pay = 0;
    int employeeCount = 0;

    while (employeeCount < 10) {
        employeeCount++;

        char emp_type;
        int hours_worked;

        printf("Enter the employee type (p for permanent and c for
contract): ");
        scanf(" %c", &emp_type);

        printf("Enter the hours employee worked: ");
        scanf("%d", &hours_worked);
```

```
        //function calling
        float overtime = calculateOvertimePay(emp_type, hours_worked);
         total_over_time_pay = total_over_time_pay + overtime;

        if (emp_type == 'p') {
            permanent++;
        }
        else if (emp_type == 'c') {
            contract++;
        }
    }

    printf("total  number of permanent employees: %d\n", permanent);
    printf("total number of contract employees: %d\n", contract);
    printf("total overtime pay: Rs. %.2f\n", total_over_time_pay);

    return 0;
}
```

```
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: 3
nter the employee type (p for permanent and c for contract): c
nter the hours employee worked: 1
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: 4
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: 5
nter the employee type (p for permanent and c for contract): c
nter the hours employee worked: 4
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: 2
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: c
nter the employee type (p for permanent and c for contract): Enter the hours employee wor
nter the employee type (p for permanent and c for contract): p
nter the hours employee worked: 2
nter the employee type (p for permanent and c for contract): c
nter the hours employee worked: 5
otal  number of permanent employees: 6
otal number of contract employees: 4
otal overtime pay: Rs. 0.00
```