

PF LAB ASSIGNMENT 6:

Q6:

```
#include <stdio.h>

int main() {
    int n;
    printf("Enter a positive integer within the range (1-9): ");
    scanf("%d", &n);

    switch (n) {
        case 1:
            printf("one\n");
            break;
        case 2:
            printf("two\n");
            break;
        case 3:
            printf("three\n");
            break;
        case 4:
            printf("four\n");
            break;
        case 5:
            printf("five\n");
            break;
        case 6:
            printf("six\n");
            break;
        case 7:
            printf("seven\n");
            break;
    }
```

```
case 8:
    printf("eight\n");
    break;
case 9:
    printf("nine\n");
    break;
default:
    printf("Greater than 9\n");
    break;
```

```
}
```

```
PS C:\Users\Pcw\Downloads\practice set> gcc q2.c
PS C:\Users\Pcw\Downloads\practice set> ./a.exe
Enter a positive integer within the range (1-9): 5
five
PS C:\Users\Pcw\Downloads\practice set> █
```

Q4:

```

#include<stdio.h>

int main() {
    float cost,discount,discountamount,finalamount;
    printf("enter the cost of items: ");
    scanf("%f", &cost);

    if(cost < 500){
        printf("the minimum amount eligible for a discount is 500\n");
    }
    if(cost < 2000){
        discount = 0.5;
    }
    else if(cost >= 2000 && cost <= 4000){
        discount = 0.10;
    }
    else if(cost >= 4000 && cost <= 6000){
        discount = 0.20;
    }
    else{
        discount = 0.35;
    }
    discountamount = cost * discount;
    finalamount = cost - discountamount;
    printf("actual amount is: %.2f\n", cost);
    printf("saved amount is: %.2f\n", discountamount);
    printf("amount after discount is: %.2f\n", finalamount);
    return 0;
}

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```

PS C:\Users\Pcw\Downloads\practice set> gcc q2.c
PS C:\Users\Pcw\Downloads\practice set> ./a.exe
enter the cost of items: 3000
actual amount is: 3000.00
saved amount is: 300.00
amount after discount is: 2700.00
PS C:\Users\Pcw\Downloads\practice set> 

```

Q3:

```
le Edit Selection View Go Run ... practice set
C q2.c x
C q2.c > main()
1  #include<stdio.h>
2
3  int main() {
4      char ch;
5      printf("enter a character: ");
6      scanf("%c", &ch);
7
8      if(ch >= 'A' && ch<= 'Z'){
9          printf("the character '%c' is a capital alphabet\n", ch);
10     }
11     else if(ch >= 'a' && ch<= 'z'){
12         printf("the character '%c' is a lowercase alphabet\n", ch);
13     }
14     else if(ch >= '0' && ch<= '9'){
15         printf("the character '%c' is a digit\n", ch);
16     }
17     else{
18         printf("the character '%c' is a special character\n", ch);
19     }
20
21     return 0;
22 }
23
```

```
the character 'a' is a special character
PS C:\Users\Pcw\Downloads\practice set> gcc q2.c
PS C:\Users\Pcw\Downloads\practice set> ./a.exe
enter a character: a
the character 'a' is a lowercase alphabet
PS C:\Users\Pcw\Downloads\practice set> 
```

Q1:

```

1  #include <stdio.h>
2
3  int main(){
4
5      int number= 0;
6      int result = 0;
7
8      printf("Enter number to check whether it is multiple of 3 ");
9      scanf("%d", &number);
10
11     result = number%3;
12
13     if (result == 0)
14
15     {
16         printf("Number is multiple of 3");
17     }
18
19     else
20     {
21         printf("Number is not multiple of 3");
22     }
23
24     return 0;
25 }

```

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  FORKS
PS C:\Users\Pcw> cd 'c:\Users\Pcw\Downloads\output'
PS C:\Users\Pcw\Downloads\output> & .\'Q1 (2).exe'
Enter number to check whether it is multiple of 3 6
Number is multiple of 3
PS C:\Users\Pcw\Downloads\output> cd 'c:\Users\Pcw\Downloads\output'
PS C:\Users\Pcw\Downloads\output> & .\'Q1 (2).exe'

```

Q2

rs > PCW > Downloads > C Q2 (1).c > ...

```
#include <stdio.h>

int main()
{
    char operato;
    int value1,value2 = 0;
    int temp = 0;
    float result = 0.0;

    printf("Enter operator for operation you want to perform ; * or / or + or - ");
    scanf(" %c",&operato);

    printf("Enter 2 numbers " );
    scanf(" %d %d", &value1, &value2 );

    if (value1 < value2)
    {
        temp=value1;
        value1 = value2;
        value2= temp;
    }

    switch (operato)
    {
    case '*':
        result = value1 * value2;
        printf ("result of * is :%.2f" ,result);
        break;
    case '/':
```

```

switch (operator)
{
case '*':
    result = value1 * value2;
    printf ("result of * is :%.2f" ,result);
    break;
case '/':
    result = value1 / value2;
    printf ("result of / is :%.2f" ,result);
    break;
case '+':
    result = value1 + value2;
    printf ("result of + is :%.2f" ,result);
    break;
case '-':
    result = value1 - value2;
    printf ("result of - is :%.2f" ,result);
    break;

default:
printf("INVALID");
    break;
}

return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\Pcw> cd 'c:\Users\Pcw\Downloads\output'
PS C:\Users\Pcw\Downloads\output> & .\Q2 (1).exe
Enter operator for operation you want to perform ; * or / or + or - +
Enter 2 numbers 4 6
result of + is :10.00
PS C:\Users\Pcw\Downloads\output>

```

Q5:

ers > PCW > Downloads > C Q5 (1).c > ...

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

int main() {
    int entered;
    char res[10];
    printf("Enter any value between 1 to 9: ");
    scanf("%d", &entered);

    const char *numbers[] = {
        "one",
        "two",
        "three",
        "four",
        "five",
        "six",
        "seven",
        "eight",
        "nine"
    };

    if (entered < 1 || entered > 9) {
        printf("Entered value is out of range.\n");
        return 1; }

    strcpy(res, numbers[entered - 1]);
```



```
        "seven",
        "eight",
        "nine"
    };

    if (entered < 1 || entered > 9) {
        printf("Entered value is out of range.\n");
        return 1; }

    strcpy(res, numbers[entered - 1]);

    printf("%s\n", res);

    return 0;
}
```

```
51 printf("%s\n", res);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Pcw> cd 'c:\Users\Pcw\Downloads\output'

PS C:\Users\Pcw\Downloads\output> & .\'Q5 (1).exe'

Enter any value between 1 to 9: 6

six

PS C:\Users\Pcw\Downloads\output> █