1. Take an integer number from the user and check if the number is bigger than 10 or not.

```
#include<stdio.h>
int main()
{
   int n;
   scanf("%d",&n);
   if(n>10)
      printf("Yes\n");
   else if(n==10)
      printf("Equal\n");
   else
      printf("No\n");
   return 0;
}
```

```
∨ main(): int
Start here X switch case practice.c X *Assignmet no-09.c X A1-Q1.c X
, -
               #include<stdio.h>
         1
               int main()
         2
         3
                                                 "D:\c practice\A1-Q1.exe"
         4
                   int n;
                   scanf("%d",&n);
         5
                  if(n>10)
         6
                                                Process returned 0 (0x0)
                                                                     execution time : 11.470 s
         7
                      printf("Yes\n");
                                                Press any key to continue.
         8
                   else if(n==10)
         9
                      printf("Equal\n");
        10
        11
                      printf("No\n");
        12
                  return 0;
        13
   Logs & others
```

2. Take two numbers from the users and find the maximum and minimum number of those two numbers.

```
#include<stdio.h>
int main()
{
   int n1,n2;
   printf("Enter Two numbers:");
   scanf("%d %d",&n1,&n2);
   if(n1>n2)
      printf("%d is maximum\n",n1);
   else
      printf("%d is maximum\n",n2);
   return 0;
}
```

```
∨ main(): int
2 0 4 0 6 0
                             ~ Q 4
      Start here X switch case practice.c X *Assignmet no-09.c X A1-Q1.c X A1-Q2.c X
            1
                 #include<stdio.h>
            2
                  int main()
            3
               □ {
            4
                      int n1, n2;
                      printf("Enter Two numbers:");
            5
                                                              ■ "D:\c practice\A1-Q2.exe"
                      scanf("%d %d",&n1,&n2);
            6
                                                              nter Two numbers:10
                      if(n1>n2)
                          printf("%d is maximum\n",n1);
                                                             15 is maximum
            8
           9
                                                              Process returned 0 (0x0) execution time : 1.424 s
           10
                          printf("%d is maximum\n", n2);
                                                              Press any key to continue.
           11
                      return 0;
           12
     Logs & others
```

3. Write a C program to check whether a given number is divisible by 4 and 400.

```
#include<stdio.h>
int main()
   int n;
   printf("Enter the number:");
   scanf("%d",&n);
   if(n%4==0 && n%400==0)
      printf("%d is divisible by both 4 & 400\n",n);
   else
      printf("Not divisible\n");
   return 0;
      / | mainty : int
                      Start here X switch case practice.c X *Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X
           #include<stdio.h>
     1
           int main()
     2
     3
               printf("Enter the number:");
     6
               scanf ("%d", &n);
               if(n%4==0 && n%400==0)
     7
                   printf("%d is divisible by both 4 & 400\n",n);
     8
     9
                   printf("Not divisible\n");
    10
                                                ■ "D:\c practice\A1-Q3.exe"
    11
               return 0;
                                               1600 is divisible by both 4 & 400
    12
    13
                                               Process returned 0 (0x0) execution time : 3.156 s
                                                Press any key to continue.
```

## 4. Write a C program to check whether the number is even or odd

```
#include<stdio.h>
int main()
{
   int n;
   printf("Enter the number: ");
   scanf("%d",&n);
   if(n%2==0)
      printf("%d id Even\n",n);
   else
      printf("%d is odd\n",n);
   return 0;
}
```

```
∨ main(): int
                                                                        tart here X switch case practice.c X *Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X A1-Q4.c X
    1
           #include<stdio.h>
    2
           int main()
    3
               int n;
               printf("Enter the number: ");
    5
                                               ■ "D:\c practice\A1-Q4.exe"
               scanf("%d", &n);
    6
                                               Enter the number: 11
               if (n%2==0)
                  printf("%d id Even\n",n);
    8
                                                                    execution time : 1.172 s
                                               Process returned 0 (0x0)
    9
                                               Press any key to continue.
                   printf("%d is odd\n",n);
   10
   11
               return 0;
```

Take a letter as input from the user and determine whether that letter is a vowel or consonant

```
#include<stdio.h>
int main()
{
    char ch;
    printf("Enter a letter : ");
    scanf("%c",&ch);
    if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||
        ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
        printf("%c is vowel\n",ch);
    else
        printf("%c is conconent\n",ch);
    return 0;
}
```

```
Start here X switch case practice.c X *Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X A1-Q4.c X A1-A5.c X practice 17.c X practice 16.c X
     1
           #include<stdio.h>
     2
           int main()
     3
     4
               char ch;
               printf("Enter a letter : ");
     5
               scanf("%c", &ch);
     6
     7
               if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||
                  ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
     8
     9
                  printf("%c is vowel\n",ch);
    10
                                                      "D:\c practice\A1-A5.exe"
                  printf("%c is conconent\n",ch);
    11
               return 0;
                                                      is conconent
    13
                                                     Process returned 0 (0x0) execution time : 2.136 s
    14
                                                     Press any key to continue.
    15
```

Write a C program to check whether a character is an alphabet, digit, or special character

```
#include<stdio.h>
int main()
{
    char x;
    printf("Enter a letter: ");
    scanf("%c",&x);
    if(x>='a' && x<='z' || x>='A' && x<='Z')
        printf("Alphabate");
    else if(x>='0' && x<='9')
        printf("Digit");
    else
        printf("Special Character");
    return 0;
}</pre>
```

```
H • Þ 🖽
                                                                                                                     Start here X switch case practice.c X practice 16.c X practice 17.c X *Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q2.c X A1-Q4.c X A1-A5.c X A1-A5.c X A1-Q5.c X A1-Q
                                                        #include<stdio.h>
                         2
                                                      int main()
                                          □ {
                                                                          char x;
                                                                          printf("Enter a letter: ");
                                                                          scanf("%c", &x);
                         6
                         8
                                                                           if(x>='a' && x<='z' || x>='A' && x<='Z')
                         9
                                                                                         printf("Alphabate");
                                                                                                                                                                                                                                                  "D:\c practice\practice 17.exe"
                    10
                                                                          else if(x>='0' && x<='9')
                                                                                                                                                                                                                                                 nter a letter: S
                                                                                         printf("Digit");
                    11
                                                                                                                                                                                                                                              Alphabate
                    12
                                                                                                                                                                                                                                                 Process returned 0 (0x0)
                                                                                                                                                                                                                                                                                                                                                      execution time : 2.391 s
                    13
                                                                                             printf("Special Character");
                                                                                                                                                                                                                                                Press any key to continue.
                                                                          return 0;
                    15
                    16
```

7. Take Three numbers from the user and find the maximum number among those three numbers using nested if else.

```
#include<stdio.h>
int main()
{
  int n1,n2,n3;
  printf("Enter three numbers: ");
  scanf("%d %d %d",&n1,&n2,&n3);
  if(n1>n2 && n1>n3)
  printf("%d is maximum\n",n1);
  else if(n2>n3 && n2>n1)
  printf("%d is maximum\n",n2);
  else
  printf("%d is maximum\n",n3);
  return 0;
}
```

```
∨ | main() : int
                                                                             Start here X switch case practice.c X Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X A1-Q4.c X A1-A5.c X A1-A6.c X A1-Q6.c X A1-Q7.c X
           #include<stdio.h>
     1
     2
           int main()
     3
                                                      III "D:\c practice\A1-Q7.exe"
     4
               int n1, n2, n3;
               printf("Enter three numbers: ");
     5
                scanf("%d %d %d",&n1,&n2,&n3);
     6
               if(n1>n2 && n1>n3)
                                                      150 is maximum
                    printf("%d is maximum\n",n1);
     8
     9
               else if(n2>n3 && n2>n1)
                                                      Process returned 0 (0x0) execution time : 5.068 s
    10
               printf("%d is maximum\n",n2);
                                                      Press any key to continue.
    11
                printf("%d is maximum\n",n3);
    12
    13
               return 0:
    14
    15
```

## 8, Write a C program to print the day of the week's name using the switch case.

```
#include<stdio.h>
int main()
  int n;
  printf("Day number(1-7):");
  scanf("%d",&n);
  switch(n)
  {
  case 1:
    printf("Saturday\n");
    break;
  case 2:
    printf("Sunday\n");
    break;
  case 3:
    printf("Monday\n");
    break;
  case 4:
    printf("Tuesday\n");
    break;
  case 5:
    printf("Wednesday\n");
    break;
  case 6:
    printf("Thursday\n");
    break;
  case 7:
    printf("Friday\n");
    break;
  default:
    printf("Not a correct option");
}
```

```
⊘ | ⇔ | ⊘ | ⊗
                                          Start here X switch case practice.c X Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X A1-Q4.c X A1-A5.c X
٠
              #include<stdio.h>
              int main()
            ₽ {
                 printf("Day number(1-7):");
                 scanf("%d", &n);
                 switch(n)
        8
                                                 III "D:\c practice\A1-Q8.exe"
                    printf("Saturday\n");
        10
                                                Day number(1-7):1
        11
                    break;
                                                Saturday
        12
                 case 2:
        13
                   printf("Sunday\n");
        14
                    break;
                                                Process returned 0 (0x0)
                                                                                 execution time : 1.484 s
        15
                                                Press any key to continue.
        16
                    printf("Monday\n");
        17
                    break;
        18
                 case 4:
                    printf("Tuesday\n");
        19
        20
                    break;
        21
                 case 5:
        22
                    printf("Wednesday\n");
        23
                    break;
        24
        25
                    printf("Thursday\n");
        26
        27
                 case 7
                    printf("Friday\n");
        28
        29
                    break;
        30
                 default:
        31
                    printf("Not a correct option");
        32
        33
        34
        35
        36
```

## 9, Write a C program to create a calculator using switch case and functions

```
#include<stdio.h>
int main()
{
    float a,b;
    char c;
    scanf("%f %c %f",&a,&c,&b);
    switch(c)
    {
    case '-':
        printf("%.3f\n",a-b);
        break;
```

```
case '+':
    printf("%.3f\n",(a+b));
    break;
  case '*':
    printf("%.3f\n",(a*b));
    break;
 case '/':
    printf("%.3f\n",a/b);
    break;
  default:
    printf("Not match\n");
 }
}
                              ∨ main(): int
Start here X switch case practice.c X Assignmet no-09.c X A1-Q1.c X *A1-Q2.c X A1-Q3.c X A1-Q4.c X A1-Q4.c X A1-A5.c X A1-Q6.c X A1-Q7.c
nbols 🕨
           1
                 #include<stdio.h>
           2
                 int main()
           3
                     float a,b;
           4
           5
                     scanf("%f %c %f", &a, &c, &b);
           6
                     switch(c)
                                                  ■ "D:\c practice\A1-Q9.exe"
           8
           9
                     case '-':
                                                 10.02-1
                        printf("%.3f\n",a-b);
          10
                                                 9.020
          11
                        break;
                                                 Process returned 0 (0x0) execution time : 1.609 s
          12
                     case '+':
                                                 Press any key to continue.
          13
                        printf("%.3f\n",(a+b));
          14
          15
                     case '*':
          16
                        printf("%.3f\n", (a*b));
          17
                        break;
                     case '/':
          18
                        printf("%.3f\n",a/b);
          19
          20
                        break;
          21
                     default:
          22
                        printf("Not match\n");
          23
          24
          25
          26
```

Name:Ashraful Islam Redoy ID:0242320005101178