

Assignment no-9

① #include <stdio.h>

int main()

{

int x;

printf("Enter a month number:\n");

scanf("%d", &x);

switch(x)

{

// case for 31 days

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:

printf("31 days");

break;

// case for 30 days

case 4:

case 6:

case 9:

case 11:

printf("30 days");

break;

// case for 28 days

case 2:

printf("28/29 days");

break;

default:

printf("Invalid month");

}

return 0;

② #include <stdio.h>

int main()

{

int num1, num2, option;

printf("Enter first integer:");

scanf("%d", &num1);

printf("Enter second integer:");

scanf("%d", &num2);

printf("Enter a option:");

printf("1: addition\n2: subtraction\n3: multiplication\n4: division\n5: exit\n");


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

```
switch (option)
```

```
{
```

```
case 1:
```

```
printf ("sum of %d and %d is %d", num1, num2, num1 + num2);
```

```
break;
```

```
case 2:
```

```
printf ("subtraction of %d and %d is %d", num1, num2, num1 - num2);
```

```
break;
```

```
case 3:
```

```
printf ("multiple of %d and %d is %d", num1, num2, num1 * num2);
```

```
break;
```

```
case 4:
```

```
printf ("division of %d and %d is %d", num1, num2, num1 / num2);
```

```
break;
```

```
case 5:
```

```
break;
```

```
default:
```

```
printf ("choose a correct option");
```

```
}
```

```
}
```

```
③ #include <stdio.h>
```

```
int main()
```

```
{
```

```
int week;
```

```
printf ("Enter week number 1-7");
```

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

```
switch (week)
```

```
{
```

```
case 1:
```

```
printf ("Monday");
```

```
break;
```

```
case 2:
```

```
printf ("Tuesday");
```

```
break;
```

```
case 3:
```

```
printf ("Wednesday");
```

```
break;
```

```
case 4:
```

```
printf ("Thursday");
```

```
break;
```

```
case 5:
```

```
printf ("Friday");
```

```
break;
```

```
case 6:
```

```
printf ("Saturday");
```

```
break;
```

```
case 7:
```

```
printf ("Sunday");
```

```
break;
```

```
default:
```

```
printf ("choose a correct day number");
```

```
}
```


④ #include <stdio.h>

int main()

{

int side1, side2, side3, option;

printf("enter a side of a triangle: \n");

printf("first side is:");

scanf("%d", &side1);

printf("second side is:");

scanf("%d", &side2);

printf("third side is:");

scanf("%d", &side3);

printf("check the property and given option");

printf("\n 1 isosceles triangle \n 2 right angle triangle \n 3 equilateral triangle \n 4 exit");

scanf("%d", &option);

switch(option);

{

case 1;

if (side1 == side2 || side2 == side3 || side3 == side1)

printf("triangle is isosceles");

break;

case 2;

if (side1 * side1 + side2 * side2 == side3 * side3 || side2 * side2 + side3 * side3 == side1 * side1 ||
side1 * side1 + side3 * side3 == side2 * side2);

printf("triangle is right angle");

break;

case 3:

if (side1 == side2 == side3)

printf("equilateral triangle");

break;

case 4:

break;

default:

printf("choose correct option");

}

}

⑤

```
#include <stdio.h>
int main()
{
    int x;
    printf("enter a variable\n");
    scanf("%d", &x);
    switch(x)
    {
        case 1;
            printf("good");
            break;
        case 2;
            printf("better");
            break;
        case 3;
            printf("best");
            break;
        default:
            printf("invalid");
    }
}
```

⑥

```
#include <stdio.h>
int main()
{
    int year, n;
    printf("enter a year\n");
    scanf("%d", &year);
    printf("choose option according to year");
    printf("\n 1 century year. \n 2 noncentury year.");
    scanf("%d", &n);
    switch(n)
    {
        case 1;
            if (year % 400 == 0)
                printf("leap year");
            else
                printf("not a leap year");
        case 2;
            if (year % 4 == 0)
                printf("leap year");
            else
                printf("not a leap year");
            break;
        default:
            printf("choose a correct option");
    }
}
```


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

```
int main ()
```

```
{
```

```
int n;
```

```
printf ("Enter a number");
```

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

```
printf ("Given number change their sign");
```

```
switch (1)
```

```
{
```

```
case 1;
```

```
printf ("%d", -n);
```

```
}
```

```
}
```

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

```
int main ()
```

```
{
```

```
int n;
```

```
printf ("Enter a even number");
```

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

```
printf ("Even number changed to nearest odd number");
```

```
switch (1)
```

```
{
```

```
case 1;
```

```
printf ("%d", n+1);
```

```
}
```

```
}
```

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