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Assignment 9

(1)
```
#include<stdio.h>
int main()
{
int number;
printf("Enter a month number\n");
scanf("%d", &number);
printf("%d\n", number);
switch(number)
{

case 1:
    printf("Month has 31 days");
        break;

case 2:
    printf("Month has 28 or 29 days");
        break;

case 3:
    printf("Month has 31 days");
        break;

case 4:
    printf("Month has 30 days");
        break;
```

```
case 5:
        printf("Month has 31 days");
            break;

case 6:
        printf("Month has 30 days");
            break;

case 7:
        printf("Month has 31 days");
            break;

case 8:
        printf("Month has 30 days");
            break;

case 9:
        printf("Month has 30 days");
            break;

case 10:
        printf("Month has 31 days");
            break;

case 11:
        printf("Month has 30 days");
            break;

case 12:
        printf("Month has 31 days");
            break;
```

default :
printf("Invalid choice");
}
return 0;
}

(2)

```
#include <stdio.h>
int main()
{
int input1, input2, choice;
while(1)
{
int input1, input2, choice;
printf("Enter a choice:\n");
printf("1. 1 for Addition\n");
printf("2. 2 for Subtraction\n");
printf("3. 3 for Multiplication\n");
printf("4. 4 for Division\n");
printf("5. 5 for Exit\n");
scanf("%d", &choice);
printf("%d\n", choice);
switch(choice)
{

case 1:
printf("Enter 2 numbers:\n");
scanf("%d %d", &input1, &input2);
printf("Sum of %d and %d is %d", input1,
input2, input1+input2);
break;
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```
case 2:
        printf("Enter 2 numbers\n");
scanf("%d %d", &input1, &input2);
printf("Result of subtraction between %d and %d is
        %d", input1, input2, input1-input2);
    break;

case 3:
        printf("Enter 2 numbers\n");
scanf("%d %d", &input1, &input2);
printf("Product of %d and %d is %d", input1,
                input2, input1*input2);
    break;

case 4:
    printf("Enter 2 numbers\n");
scanf("%d %d", &input1, &input2);
printf("Result of division between %d and %d is
        %d", input1, input2, input1/input2);
    break;

case 5:
        printf("End of a program\n");
        exit(0);

}
printf("\n\n");

}
    return 0;
}
```

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(3)

```
#include <stdio.h>
  int main()
  {
int number;
printf("Enter a week day number\n");
scanf("%d", &number);
printf("%d", number);
    Switch(number)
  {
case 4:
      printf("Monday: Beginning of a week");
          break;
case 2:
      printf("Tuesday: Have a nice day");
          break;
case 3:
      printf("Wednesday: You can achieve it");
          break;

case 4:
      printf("Thursday: You are stronger than you think");
          break;

case 5:
      printf("Friday: Enjoy your life");
          break;
```

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```
case 6:
        printf("Saturday: Yeah! It is a weekend.");
        break;

case 7:
        printf("Sunday: It is an end of a week.");
        break;

default:
        printf("Invalid choice");
        break;

}

return 0;

}
```

```
#include <stdio.h>
    int main()
    {
int a, b, c, choice;
printf("Enter sides of a triangle\n");
scanf("%d %d %d", &a, &b, &c);
printf("Enter a choice from below: \n");
printf("1. 1 fo check whether triangle is isocles or not\n");
printf("2. 2 to check whether triangle is right angled or
        not\n");
printf("3. 3 to check whether triangle is equilateral or not\n");
 scanf("%d ", choice);
(printf("%d\n", choice);
      switch (choice)
    {

case 1:
      if(a==b || b==c || a==c)
        printf("Yes triangle is isoceles");
      else
        printf("No triangle is not isoceles");
        break;

case 2:
      if(a^2+b^2==c^2 || b^2+c^2=a^2 || a^2+c^2=b^2)
        printf("Yes triangle is a right angled").
      else
        printf("No triangle is not right angled.");
          break;
```

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```
case 3:
    if(a==b && b==c && a==c)
        printf("Yes it is an equilateral triangle");
    else
        printf("NO it is not an equilateral triangle");
        break;

default:
    printf("Invalid choice");

}
return 0;
}
```

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(5)

```
#include <stdio.h>
    int main()
  {
int var;
printf("Enter a number\n");
scanf("%d", &var);
printf("%d\n", var);
  switch (var)
  {
  case 1:
        printf("good");
          break;

  case 2:
        printf("better");
          break;

  case 3:
        printf("best");
            break;

  default:
        printf("Invalid");

  }
  return 0;
    }
```

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```
#include <stdio.h>
    int main()
    {
int yearNumber, a;
printf("Enter a year number\n");
scanf("%d", &yearNumber);
    a= yearNumber.%100;

    switch (a)
    {

case 0:
    if( yearNumber.%400)
      printf("Non leap year");

    else
      printf("leap year");
          break;

default:

    if(yearNumber.%4)
      printf("Non leap year.");
else
    printf("Leap year");
          break;

    }
    return 0;
}
```

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(7)
```
#include <stdio.h>
    int main()
    {
int unitNumber, ; float total;
printf("Enter units\n");
cscanf("%d", &unitNumber);
printf("%d\n", unitNumber);
    switch( unitNumber)
    {

case 1...50:
        total = unitNumber * 0.50;
        total = total + 20/100 * total;
printf(" %.f is the amount electricity bill", total);
        break;

case 51...150:
        total = unitNumber * 0.75;
        total = total + 20/100 * total;
printf(" The total bill is %f ", total);
        break;

case 151...250:
        total = unitNumber * 1.20;
        total = total + 20/100 * total;
printf(" The total bill is %f ", total);
        break;
```

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```
default :
        total = UnitNumber * 1.50;
        total = total + 20/100 * unitNumber;

printf("The total electricity bill is %f", total);

}
return 0;

}
```