

```
1  /* program to find greatest among two using if else statement */
2
3  #include <stdio.h>
4
5  int main()
6  {
7      int a,b;
8      printf("Enter value of a,b");
9      scanf("%d%d",&a,&b);
10     if(a>b)
11     {
12         printf("a is greater");
13     }
14     else
15     {
16         printf("b is greater");
17     }
18     return 0;
19 }
20
```

Qusetion-1

```
1  /* program to find greatest among three using if else statement */
2
3  #include <stdio.h>
4
5  int main()
6  {
7      int a=4,b=3,c=5;
8      if(a>b&&a>c)
9      {
10         printf("a is greater");
11     }
12     else
13     {
14         printf("c is greater");
15     }
16     if(b>a&&b>c)
17     {
18         printf("b is greater");
19     }
20     else
21     {
22         printf("c is greater");
23     }
24     return 0;
25 }
26
```

Question-2

```

1  /* C program to find whether a no.
2     is divisible by 5 and 11 or not*/
3
4  #include <stdio.h>
5  int main()
6  {
7      int a;
8      printf("Enter value of a");
9      scanf("%d",&a);
10     if(a%5==0&&a%11==0)
11     {
12         printf("a is divisible by 5 and 11");
13     }
14     else
15     {
16         printf("a is not divisible by 5 and 11");
17     }
18     return 0;
19 }
20

```

Question-4

```
/* C program to find whether a no.  
is even or odd*/
```

```
#include <stdio.h>  
int main()  
{  
int a;  
printf("Enter value of a");  
scanf("%d",&a);  
if(a%2==0)  
{  
    printf("a is even");  
}  
else  
{  
    printf("a is odd");  
}  
return 0;  
}
```

Question-5

```
1  /* C program to find whether a year
2     is leap year or not*/
3
4  #include <stdio.h>
5  int main()
6  {
7      int a;
8      printf("Enter value of a");
9      scanf("%d",&a);
10     if(a%4==0&&a%100&&a%400)
11     {
12         printf("a is leap year");
13     }
14     else
15     {
16         printf("a is not a leap year");
17     }
18     return 0;
19 }
20
```

Question-6

```
1  /* C program to find whether a character
2     is alphabet or not*/
3
4  #include <stdio.h>
5  int main()
6  {
7      char ch;
8      printf("Enter value of ch");
9      scanf("%c",&ch);
10     if((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z'))
11     {
12         printf("ch is alphabet");
13     }
14     else
15     {
16         printf("ch is not a alphabet");
17     }
18     return 0;
19 }
20
```

Question-7

```

1  /* C program to find whether a character
2     is alphabet or not*/
3
4  #include <stdio.h>
5  int main()
6  {
7      char ch;
8      printf("Enter value of ch");
9      scanf("%c",&ch);
10     if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||
11        ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
12     {
13         printf("ch is vowel");
14     }
15     else
16     {
17         printf("ch is consonant");
18     }
19     return 0;
20 }
21

```

Question-8


```
1  /* C program to find whether the
2     character is alphabet,digit or
3     special character*/
4
5  #include <stdio.h>
6
7  int main()
8  {
9      char ch;
10         printf("Enter value of ch");
11         scanf("%c",&ch);
12         if((ch>='a'&&ch<='z') || (ch>='A'&&ch<='Z'))
13         {
14             printf("ch is alphabet");
15         }
16         else if(ch>=0&&ch<=9)
17         {
18             printf("ch is digit");
19         }
20         else
21         {
22             printf("ch is a special character");
23         }
24         return 0;
25     }
26
```

Question-9


```
1  /* C program to find whether the
2     character is lowercase or uppercase
3     alphabet*/
4
5  #include <stdio.h>
6
7  int main()
8  {
9      char ch;
10         printf("Enter value of ch");
11         scanf("%c",&ch);
12         if(ch>='a'&&ch<='z')
13         {
14             printf("ch is lowercase alphabet");
15         }
16         else if(ch>='A'&&ch<='Z')
17         {
18             printf("ch is uppercase alphabet");
19         }
20         else
21         {
22             printf("Invalid entry");
23         }
24
25         return 0;
26     }
27
```

Question-10

```

1  /* C program to input week number and print week day*/
2
3  #include <stdio.h>
4
5  int main()
6  {
7      int num;
8      printf("Enter value of num");
9      scanf("%d",&num);
10     if(num==1)
11     {
12         printf("Monday");
13     }
14     else if(num==2)
15     {
16         printf("Tuesday");
17     }
18     else if(num==3)
19     {
20         printf("Wednesday");
21     }
22     else if(num==4)
23     {
24         printf("Thursday");
25     }
26     else if(num==5)
27     {
28         printf("Friday");
29     }
30     else if(num==6)
31     {
32         printf("Saturday");
33     }
34     else if(num==7)
35     {
36         printf("Sunday");
37     }
38     else
39     {
40         printf("Invalid input");
41     }
42     return 0;
43 }
44

```

Question-11

```

1 - /* C program to input month number and print
2     no. of days in that month*/
3
4 #include <stdio.h>
5
6 int main()
7 {
8     int month;
9     printf("Enter value of month");
10    scanf("%d",&month);
11    if(month==1)
12    {
13        printf("no. of days=31");
14    }
15    else if(month==2)
16    {
17        printf("no. of days=28 or 29");
18    }
19    else if(month==3)
20    {
21        printf("no. of days=31");
22    }
23    else if(month==4)
24    {
25        printf("no. of days=30");
26    }
27    else if(month==5)
28    {
29        printf("no. of days=31");
30    }
31    else if(month==6)
32    {
33        printf("no. of days=30");
34    }
35    else if(month==7)
36    {
37        printf("no. of days=31");
38    }
39    else if(month==8)
40    {
41        printf("no. of days=31");
42    }
43    else if(month==9)
44    {
45        printf("no. of days=30");
46    }
47    else if(month==10)
48    {
49        printf("no. of days=31");
50    }
51    else if(month==11)
52    {
53        printf("no. of days=30");
54    }
55    else if(month==12)
56    {
57        printf("no. of days=31");
58    }
59    else
60    {
61        printf("Invalid month");
62    }
63    return 0;
64 }
65
66

```

Question-12

```
1  /* C program to input angles of triangle
2     and check triangle is valid or not*/
3  #include <stdio.h>
4
5  int main()
6  {
7      int a,b,c;
8      printf("Enter values of a,b,c");
9      scanf("%d%d%d",&a,&b,&c);
10     if(a+b+c==180)
11     {
12         printf("Triangle is valid");
13     }
14     else
15     {
16         printf("Triangle is not valid");
17     }
18
19     return 0;
20 }
21
22
```

Question-14

```
/* C program to find whether the Triangle is equilateral,  
isosceles or scalen*/  
  
#include <stdio.h>  
  
int main()  
{  
int x,y,z;  
    printf("Enter value of x,y,z");  
    scanf("%d%d%d",&x,&y,&z);  
if(x==y&&y==z&&x==z)  
{  
    printf("Triangle is Equilateral");  
}  
else if(x!=y&&y!=z&&x!=z)  
{  
    printf("Triangle is Scalen");  
}  
else  
{  
    printf("Triangle is Isosceles");  
}  
    return 0;  
}
```

Question-16

```

1  /* C program to calculate profit or loss*/
2  |
3  #include <stdio.h>
4  #include <math.h>
5
6  int main()
7  {
8  int cp,sp,amt;
9      printf("Enter values of cp,sp");
10     scanf("%d%d",&cp,&sp);
11     if(sp>cp)
12     {
13         amt=sp-cp;
14         printf("profit=%d",amt);
15     }
16     else if(cp>sp)
17     {
18         amt=cp-sp;
19         printf("loss=%d",amt);
20     }
21     else
22     {
23         printf("no loss and no profit");
24     }
25     return 0;
26 }
27

```

Question-18


```

1  /* C program to enter five subject marks and
2     calculate percentage and grade*/
3
4  #include <stdio.h>
5
6  int main()
7  {
8      int phy, che, math, bio, comp, perc;
9      printf("\nEnter marks of phy, che, math, bio, comp\n");
10     scanf("%d%d%d%d%d", &phy, &che, &math, &bio, &comp);
11     perc = (phy + che + math + bio + comp) * 100 / 500;
12     printf("percentage = %d\n", perc);
13     if(perc >= 90)
14     {
15         printf("Grade is A");
16     }
17     else if(perc >= 80)
18     {
19         printf("Grade is B");
20     }
21     else if(perc >= 70)
22     {
23         printf("Grade is C");
24     }
25     else if(perc >= 60)
26     {
27         printf("Grade is D");
28     }
29     else if(perc >= 40)
30     {
31         printf("Grade is E");
32     }
33     else if(perc < 40)
34     {
35         printf("Grade is F");
36     }
37     else
38     {
39         printf("Invalid input");
40     }
41     return 0;
42 }
43

```

Question-19