Question no. 1

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

Question no. 2

```c
#include <stdio.h>
int main(){
    int n;
    printf("Enter the digit: ");
    scanf("%d", &n);
    if(n>=0)  {
        printf("%d is positive number",n);   }
    else   {
        printf("%d is negative number",n);   }
    return 0;  }
```

Question no. 3

```c
#include <stdio.h>
int main(){
    int n;
    printf("Enter the digit: ");
    scanf("%d", &n);
    if(n%2==0)   {
```

```c
        printf("%d is even",n);   }
    else {
       printf("%d is odd",n);
    }   return 0;  }
```

Question no. 4

```c
#include <stdio.h>
int main(){
    int n;
    printf("Enter the digit: ");
    scanf("%d", &n);
    if((n & 1)==0)   {
       printf("%d is even",n);    }
    else  {
       printf("%d is odd",n);
    }   return 0;
}
```

Question no. 5

```c
#include <stdio.h>
int main(){
    int n;
    printf("Enter the digit: ");
    scanf("%d", &n);
    if(n>=100 && n<=999)  {
       printf("%d is three digit",n);   }
    else{
       printf("%d is not three digit",n);
    }   return 0;  }
```

Question no. 6

```c
#include <stdio.h>
int main(){
    int n1,n2;
    printf("Enter the digit: ");
    scanf("%d %d", &n1,&n2);
if(n1>n2){
    printf("%d ",n1);}
else if(n2>n1){
    printf("%d",n2);}
else{
    printf("%d",n1);}
return 0;}
```

Question no. 7

Question no. 8

```c
#include <stdio.h>
int main(){
    int year;
    printf("Enter the digit: ");
    scanf("%d",&year);
if(year%400==0){
    printf(" is leap year");}
else if(year%100==0){
    printf(" is not leap year");}
else if(year%4==0){
    printf(" is leap year");}
else{
    printf(" is not leap year");}
return 0;}
```

question no. 9

```c
#include <stdio.h>
int main(){
    int n1,n2,n3;
    printf("Enter the digit: ");
    scanf("%d %d %d",&n1,&n2,&n3);
if(n1>=n2 && n1>=n3) {
    printf(" %d",n1);   }
if(n2>=n1 && n2>=n3) {
    printf(" %d",n2);    }
if(n3>=n1 && n3>=n2) {
    printf(" %d",n3);   }
return 0;  }
```

question no. 10

```c
#include<stdio.h>
main()
{
int sp,cp,loss,profit;
printf("enter cp and sp\n");
scanf("%d %d",&cp,&sp);
if(cp>sp)   {
 loss=((cp-sp)*100)/cp;
 printf("%d %% loss ",loss);   }
else if(sp>cp)    {
 profit=((sp-cp)*100)/cp;
 printf("%d %% Profit",profit);    }
 else   {
 printf("no loss no Profit");   }
}
```

question no. 11

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

```c
int main()

{

    int m1, m2, m3, m4, m5, total;

    printf("Enter Marks of Five Subjects:\n");

    scanf("%d %d %d %d %d", &m1, &m2, &m3, &m4, &m5);

    total = m1+m2+m3+m4+m5;

    printf("\nTotal Marks of Student = %d\n",total);

    if(m1>=33 && m2>=33 && m3>=33 && m4>=33 && m5>=33)

    {

        printf("\nStudent is PASS\n");

    }

    else

        printf("\nStudent is FAIL");

    return 0;

}
```

Question no. 12

```c
#include<stdio.h>

int main() {

  char ch;

  printf("\nEnter The Character : ");

  scanf("%c", &ch);

  if (ch >= 65 && ch <= 90)

    printf("Character is Upper Case");

  else

    printf("Character is Not Upper Case");

  return (0);

}
```

Question no. 13

```c
#include<stdio.h>

int main()

{
```

```c
        char n;

        printf("enter a number");

        scanf("%d",&n);

        if(n%2==0 && n%3==0)

                printf("division by both 2 and 3");

        else

                printf("Not divisible by both 2 and 3");

return 0;

}
```

Question no. 14

```c
#include<stdio.h>

int main()

{

        char n;

        printf("enter a number");

        scanf("%d",&n);

        if(n%7==0 || n%3==0)

                printf("division by 7 or 3");

        else

                printf("Not divisible by 3 and 7");

return 0;

}
```

Question no. 15

```c
#include<stdio.h>

int main()

{

        char n;

        printf("enter a number");

        scanf("%d",&n);

        if(n>0)

                printf("positive");
```

```c
        else if(n<0)
                printf("negative");
        else
                printf("number is 0");
return 0;
}
```

Question no. 16

```c
#include<stdio.h>
int main()
{
        char ch;
        scanf("%c",&ch);
        if(ch >= 65 && ch <= 90)
                printf("Upper");
        else if(ch >= 97 && ch <= 122)
                printf("Lower");
        else if(ch >= 48 && ch <= 57)
                printf("Number");
        else
                printf("Symbol");
return 0;
}
```

Question no. 17

```c
#include <stdio.h>
int main() {
  int side1, side2, side3;
 printf("Enter Length of Three Sides of a Triangle\n");
  scanf("%d %d %d", &side1, &side2, &side3);
  if( (side1 + side2 > side3) && (side2 + side3 > side1)
        && (side3 + side1 > side2)) {
```

```c
        printf("It is a Valid Triangle\n");

    } else {

        printf("It is an invalid Triangle");

    }

    return 0;

}
```

Question no. 18

```c
#include <stdio.h>

int main()

{

    const int MONTHS[] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

    int month;

    printf("Enter month number (1-12): ");

    scanf("%d", &month);

    if(month >= 1 && month <= 12)

    {

        printf("%d days", MONTHS[month - 1]);

    }

    else

    {

        printf("Invalid input! Please enter month number between (1-12).");

    }

    return 0;

}
```