Programs on simple if & if-else

Simple if

1) Whether no. is positive

```
#include<stdio.h>
int main()
{
   int num;
   printf("\nEnter a number:");
   scanf("%od", &num);
   if (num>0)
   {
     printf("\nThe number is positive");
   }
   return1;
}
```

2) Whether no. is odd

```
#include <stdio.h>
int main()
{
   int num;
   printf("\nEnter the number:");
   scanf("%od", &num);
   if-(num%02!=0)
   {
     printf("\nThe number is odd");
   }
   return 1;
}
```

3)
```
#include<stdio.h>
int main()
{
    int age;
    printf("\nEnter age of person: ");
    scanf("%d",&age);
    if(age>=18)
    {
      printf("\nThe person is eligible for voting");
    }
    return 1;
}
```

4)
```
#include<stdio.h>
int main()
{
    int num;
    printf("\nEnter the number: ");
    scanf("%d",&num);
    if(num>0)
    {
      printf("\nThe number is positive");
    }
    if(num<0)
    {
      printf("\nThe number is negative");
    }
```

```
if (num==0)
{
  printf ("\n The number is 0");
}
return 1;
}
```

5) Whether number is divisible by 5 and 7 or not

```
#include<stdio.h>
int main()
{
  int num;
  printf("\n Enter the number");
  scanf ("%d", &num);
  if ((num%5==0)&&(num%7==0))
  {
    printf ("\n The number is divisible by 5
                                and 7");
  }
  return 1;
}
```

6) given character is alphabet

```
#include<stdio.h>
int main()
{
  char ch;
  printf("\n Enter the ch:");
  scanf("%c", &ch);
```

```
if ((ch>=97)&&(ch<=122)||(ch>=65)&&(ch<=
{
  printf("\nch is alphabet");
}
return 0;
}
```

If-else

① Whether number is even or odd

```
#include<stdio.h>
int main()
{
    int num;
    printf("\nEnter a number:");
    scanf("%d",&num);
    if(num%2==0)
    {
      printf("\nThe number is even");
    }
    else
    {
      printf("\nThe number is odd");
    }
    return 1;
}
```

② Whether no. is positive or negative

```
#include<stdio.h>
int main()
{
    int num;
    printf("\n Enter the number:");
    scanf("%d", &num);
    if (num>0)
    {
        printf("\n The number is positive");
    }
    else
    {
        printf("\n The number is negative");
    }
    return 1;
}
```

(4)

```
#include<stdio.h>
int main()
{
    char ch;
    printf("\n Enter the ch:");
    scanf("%c", &ch);
    if ((ch>=97) && (ch<=122) && ((ch>=65) && (ch<=90))
    {
        printf("\n ch is alphabet");
    }
```

or we can use `if(isalpha(ch))`

```
else
{
    printf("\nch is not an alphabet");
}
}
```

(8)
```
#include<stdio.h>
int main()
{
    int age;
    printf("\nEnter the age:");
    scanf("%d",&age
    if(ag>=18)
    {
        printf("\nPerson is eligible for voting
                                    in India");
    }
    else
    {
        printf("\n Person is not eligible for
                                voting in India");
    return 1;
}
```

(5) (Characters upper case or not)
```
#include<stdio.h>
int main()
{
    int ch;
    Printf("\n Enter the ch:");
```

```
scanf ("%c", &ch);
if ((ch >= 65) && (ch <= 90))
{
    printf ("\nch is upper case");
}
else
{
    printf ("\nch is not upper case");
}
return 0;
}
```

6)
```
#include<stdio.h>
#include<ctype.h>
int main()
{
    int ch;
    printf ("\n Enter the character:");
    scanf ("%c", &ch);
    if (isdigit (ch))
    {
        printf ("\nch is a digit");
    }
    else
    {
        printf ("\nch is not a digit");
    }
    return 0;
}
```

4) #include<stdio.h>
int main()
{
int NH, CA, PA;
printf("\n Enter NH, CA, PA");
scanf("%d %d %d", &NH, &CA, &PA);
~~if (PA < 75%~~
PA = $\frac{CA}{NH}$ x100;
if (PA < 75%)
{
printf ("\n the student is not allowed to exam");
}
else
{
printf ("\n The student is allowed to exam");
}
return 0;
}

100
90x100/100