

A 1 -

```
char a;
printf("enter the character ");
scanf("%c", &a);

if(a == 'a' || a == 'e' || a == 'e' || a == 'i' || a == 'o' || a == 'u') {
    printf("this is a vowel");

}

else {
    printf("this is a consonant");
}
```

A2 -

```
char a;
printf("enter the character ");
scanf("%c", &a);

if(a == 'p' || a == 'e' || a == 'a' || a == 'k') {
    printf("this is a peak word");

}

else {
    printf("input mismatch");
}
```

A 3 -

```
char a;
printf("enter the character ");
scanf("%c", &a);

if(a == 'q' || a == 'w' || a == 'e' || a == 'r' || a == 't' || a == 'y' || a == 'u' || a == 'i' || a == 'o' || a == 'p')
{
    printf("upper line");

}
```

```
else {  
    printf("input mismatch");  
}
```

A4 -

```
char a;  
printf("enter the character ");  
scanf("%c", &a);
```

```
if(a == 'a' || a == 's' || a == 'd' || a == 'g' || a == 'j' || a == 'k' || a == 'l') {  
    printf("mid line");
```

```
}
```

```
else {  
    printf("input mismatch");  
}
```

A 5 -

```
char a;  
printf("enter the character ");  
scanf("%c", &a);
```

```
if(a == 'z' || a == 'k' || a == 'c' || a == 'v' || a == 'b' || a == 'n' || a == 'm') {  
    printf("matched");
```

```
}
```

```
else {  
    printf("input mismatch");  
}
```

A 6 -

```
int a;  
printf("enter the number ");  
scanf("%d", &a);
```

```
if (a>=1 && a<=5) {  
    printf("number is between 1 to 5");  
}  
else {  
    printf("invalid input");  
}
```

A 7 -

```
int a;  
printf("enter the number ");  
scanf("%d", &a);  
  
if (a>=11 && a<=20) {  
    printf("number is between 11 to 20");  
}  
  
else {  
    printf("invalid input");  
}
```

A 8 -

```
int a;  
printf("enter the number ");  
scanf("%d", &a);  
  
if (a>=23 && a<=56) {  
    printf("number is between 23 to 56");  
}  
  
else {  
    printf("invalid input");  
}
```

A 9 - —

```
int a,b,c,d,e;  
    int sum;  
    int average;
```

```
printf("maths marks "); scanf("%d", &a);
printf("english marks "); scanf("%d", &b);
printf("hindi marks "); scanf("%d", &c);
printf("science marks "); scanf("%d", &d);
printf("history marks "); scanf("%d", &e);
```

```
if (a>=36 && b>=36 && c>=36 && d>=36 && e>=36) {
printf("PASS\n");
}
```

```
else {
printf("FAIL\n");
}
```

```
sum = a + b + c + d + e;
average = sum / 5.0;
```

```
printf("Average marks: %d\n", average);
```

```
A 10 - int english,hindi,maths,total;
float percentage;
```

```
printf("English marks "); scanf("%d", & english);
printf("Hindi marks "); scanf("%d", & hindi);
printf("Maths marks "); scanf("%d", & maths);
```

```
if (english>=33 && hindi>=33 && maths>=33) {
printf("pass\n");
}
```

```
else {
printf("fail\n");
}
```

```
total = english + hindi + maths;
percentage = (total*100)/300;
printf("%f", percentage);
```

```
A 11 - int english,maths,hindi,science,computer,total;
```

```
float percentage;
```

```
printf("english marks "); scanf("%d", &english);  
printf("maths marks "); scanf("%d", &maths);  
printf("hindi marks "); scanf("%d", &hindi);  
printf("science marks "); scanf("%d", &science);  
printf("computer marks "); scanf("%d", &computer);
```

```
if (english>=75 && english<=99 && maths>=75 && maths<=99 && hindi>=75 && hindi<=99 &&  
science>=75 && science<=99 && computer>=75 && computer<=99) {  
    printf("eligible for jee\n");  
}
```

```
else {  
    printf("not eligible for jee\n");  
}
```

```
total = english + maths + hindi + science + computer;  
percentage = (total*100)/500;  
printf("percentage %f",percentage);
```

A 12 -

```
char a;  
printf("enter a character");  
scanf("%c", & a);  
  
if (a>='a' && a<='z') {  
    printf("this is a character");  
}
```

```
else {  
    printf("you are not valid");  
}
```

A 13 -

```
char a;  
printf("enter a character");  
scanf("%c", & a);  
  
if (a>='A' && a<='Z') {  
    printf("this is a character");
```

```
}
```

```
else {  
    printf("you are not valid");  
}
```

A 14 - char a;

```
printf("enter a character ");  
scanf("%c", & a);
```

```
if (a>='A' && a<='Z' || a>='a' && a<='z') {  
    printf("this is a character");  
}
```

```
else {  
    printf("you are not valid");  
}
```

A 15 -

```
int a,b,c;  
printf("enter the number "); scanf("%d", &a);  
printf("enter the number "); scanf("%d", &b);
```

```
if (a>b) {  
    printf("a is greater than b\n");  
}
```

```
else {  
    printf("b is greater than a\n");  
}
```