Question 1

```
[ ] num_int = 1
    print('Data type of num_int before type Casting:',type(num_int))
```

```
Data type of num_int before type Casting: <class 'int'>
```

Question2

```
num_float = 12.45
print('Data type of num_float before type Casting:',type(num_float))
```

```
Data type of num_float before type Casting: <class 'float'>
```

Question 3

```
[ ] string = "ansha is good"
    print('Data type of a before type Casting:',type(string))
```

```
Data type of a before type Casting: <class 'str'>
```

Question 4

```
[ ] #ansha is doing a great job
```

```
[ ] '''yes i have completed my assigmnent
    and i am going to submit it'''
```

```
'yes i have completed my assigmnent \nand i am going to submit it'
```

Question5

```
[15] num = 10.5
     print(type(num))
     num = int(num)
     print(type(num))
```

```
<class 'float'>
<class 'int'>
```

Question 6

```
x,y = 45,9

print(x,y)

#swapping values
x,y = y,x

print(x,y)
```

```
45 9
9 45
```

Question 7

Suggested code may be subject to a licence |

```
operator = input("Enter an operator(+, -, *, /):")
num1 = int(input("Enter 1st number:"))
num2 = int(input("Enter 2nd number:"))
if operator == '+':
    print(num1+num2)
elif operator == '-':
    print(num1-num2)
elif operator == '*':
    print(num1*num2)
elif operator == '/':
    print(num1/num2)

else:
    print("Invalid operator")
```

```
Enter an operator(+, -, *, /):*
Enter 1st number:3
Enter 2nd number:6
18
```

Question 8

```
[16] n1 = int(input("Enter 1st number:"))
     n2 = int(input("Enter 2nd number:"))
     n3 = int(input("Enter 3rd number:"))
     n4 = int(input("Enter 4th number:"))
     n5 = int(input("Enter 5th number:"))
     average = (n1+n2+n3+n4+n5)/5
     print("Average of 5 numbers is:",average)
```

```
Enter 1st number:3
Enter 2nd number:6
Enter 3rd number:21
Enter 4th number:27
Enter 5th number:2
Average of 5 numbers is: 11.8
```

Question 9

```
a=6
b=3



#equal to operator
print('a==b=',a==b)


#not equal to operator
print('a!=b=',a!=b)


#greater than operator
print('a>b=',a>=b)

#less than operator
print('a<b=',a<b)



#greater than equal to operator
print('a>=b=',a>=b)

#less than equal to operator
print('a<=b=',a<=b)
```

```
a==b= False
a!=b= True
a>b= True
a<b= False
a>=b= True
a<=b= False
```

Question 10

```
num_1 =int(input('Enter a number:'))
num_2 =int(input('Enter a number:'))
print(num_1>3 and num_2<10)
print(num_1>3 or num_2==5)
print(not(num_1))
```

```
Enter a number:3
Enter a number:5
False
True
False
```

Question 11

```
kilometers = float(input("Enter value in kilometers: "))

miles = kilometers * (0.621371)

print(kilometers,"kms in miles will be",miles,"miles")
```

```
Enter value in kilometers: 33
33.0 kms in miles will be 20.505243 miles
```

Question 12

```
[12] Suggested code may be subject to a licence |
weight = int(input("Enter weight in kg:"));
height = float(input("enter height in meters:"));
bmi = weight/float(height*height);
print("bmi is",bmi)
```

```
Enter weight in kg:67
enter height in meters:6.3
bmi is 1.688082640463593
```

Question 13

```
[9] radius =float(input("Enter the radius of the circle"))
area = 3.14*radius*radius
print("area of circle is:", area)
```

```
Enter the radius of the circle6
area of circle is: 113.03999999999999
```

Question 14

```
[11]
num1 = int (input("Enter a number: "))
sqr =num**(1/2)
print("The square root of the number is:", sqr)
```

```
Enter a number: 64
The square root of the number is: 8.0
```