Ans1:

percentage=int(input("Enter your percentage:"))

if percentage>90:

    print("A grade")

elif percentage>80 and percentage<=90:

    print("B grade")

elif percentage>=60 and percentage<=80:

    print("C grade")

else:

    print("D grade")

Ans2:

cost\_price=int(input("Enter cost price of your bike:"))

if cost\_price>100000:

    print("Your tax is {}".format(cost\_price\*0.15))

elif cost\_price>50000 and cost\_price<=100000:

    print("Your tax is {}".format(cost\_price\*0.1))

else:

    print("Your tax is {}".format(cost\_price\*0.05))

Ans3:

city=str(input("Enter the city name:"))

if city=="Delhi" or city=="delhi":

    print("Monument of this city is Red Fort")

elif city=="Agra" or city=="agra":

    print("Monument of this city is Taj Mahal")

elif city=="Jaipur" or city=="jaipur":

    print("Monument of this city is Jal MAhal")

Ans4:

i=int(input("Enter number"))

count=0

while i>=10:

    i=i/3

    count = count +1

print(count)

Ans5:  While loop is used **to run a block code until a certain condition is met. Before performing a loop body it checks for condition. We should use the while loop when we don’t know how many times we want the code to execute but we know the condition till it should execute. We can also use else statement with while loop. And if the condition is always true then it will result to infinite loop.**

joining\_age=25

while joining\_age<=60:

    print(joining\_age)

    joining\_age=joining\_age+1

else:

    print("Its time for retirement")

Ans6: PATTERN1

num\_rows=int(input("Enter no. of rows"))

i=0

while (i<num\_rows):

    i=i+1

    space=num\_rows-i

    j=0

    while(j<space):

      print(" ",end="")

      j=j+1

    stars=2\*i-1

    while(stars>0):

        print("\*",end="")

        stars=stars-1

    print()

PATTERN2

num\_rows=int(input("Enter no. of rows"))

i=num\_rows+1

while (i>0):

    i=i-1

    space=num\_rows-i

    j=0

    while(j<space):

        print(" ",end="")

        j=j+1

    stars=2\*i-1

    while(stars>0):

        print("\*",end="")

        stars=stars-1

    print()

PATTERN3

num\_rows=int(input("Enter no. of rows"))

i=0

while (i<num\_rows):

    i=i+1

    space=num\_rows-i

    j=0

    while(j<space):

      print(" ",end="")

      j=j+1

    stars=2\*i-1

    while(stars>0):

        print("\*",end="")

        stars=stars-1

    print()

x=num\_rows

while (x>0):

    x=x-1

    space=num\_rows-x

    y=0

    while(y<space):

        print(" ",end="")

        y=y+1

    stars=2\*x-1

    while(stars>0):

        print("\*",end="")

        stars=stars-1

    print()

Ans7:

n=10

while(n>0):

    print(n)

    n=n-1

Ans8:

n=10

while(n>0):

    print(n)

    n=n-1